

SAP HR



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About the Tutorial

SAP Human Capital Management (SAP HCM) is one of the key modules in SAP and is also called SAP Human Resource (HR) or SAP Human Resource Management System (SAP HRMS). This introductory tutorial gives a brief overview of the features of SAP HR and how to use it in a systematic manner

Audience

Human capital management products from SAP can help your organization hire and retain the right people, manage the work environment, streamline HR processes, ensure legal compliance, and create a people-centric organization.

This tutorial is designed to configure the HR module of SAP in an easy and systematic way. Packed with plenty of screenshots, it will be useful for consultants as well as end-users.

Prerequisites

Before you start proceeding with this tutorial, we are assuming that you are already aware of the basics of SAP. It will be helpful if you have some exposure to the HR functions normally conducted in an organization.

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Overview

1. SAP HR – Introduction

SAP Human Capital Management (SAP HCM) is one of the key modules in SAP and is also called SAP Human Resource (HR) or SAP Human Resource Management System (SAP HRMS). SAP HCM contains many submodules and all these modules are integrated with each other.

The key modules are as follows:

- **Organizational Management:** Organizational Management includes Personnel development, Personnel cost planning and event management.
- **Time Management:** Time management includes time recording, attendance, time schedule, shift management, etc.
- **Personnel Administration:** Personnel Administration includes personal and organizational structure, Infotypes, integration with time and payroll, etc.
- **Payroll:** Payroll deals with payroll types, payroll group configuration, primary and secondary wages, gross pay, bonus, etc.
- **Recruitment:** Recruitment includes hiring an employee, maintaining HR master data, etc.
- **Training and Event Management:** Training and Event Management deals with identifying training needs, scheduling training, training cost management, etc.
- **Travel Management:** Travel Management includes managing official trips, cost management for travel, travel expenses, etc.

Organization Management

Organization Management allows you to manage the enterprise structure and analyze organization plans.

The key features are:

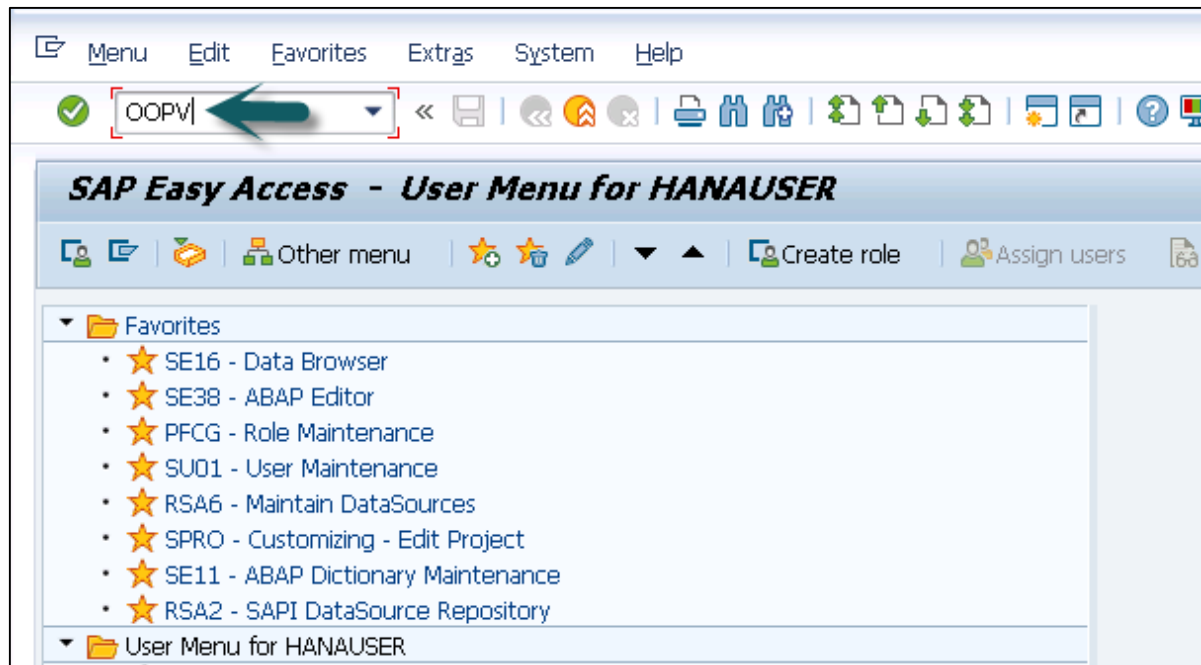
- In organization management, you can configure system settings that is required for enterprise structure, personnel cost planning, etc.
- You can define plan version to configure various organization plans at the same time.
- Only one plan version defines your organizational current plan.
- You can edit, change or compare different organization plans using plan version.
- You can have two different plan versions, one for marketing and other one for sales hierarchy.

- You can compare or edit both the plans but only one plan can be used at a time.

How to set a Plan version as active?

There are two ways to set a plan version.

1. Use the code **T-Code: OOPV**



2. Go to IMG -> Personnel Management -> Global Settings -> Plan Version Maintenance -> Maintain Plan Versions.

You can select from the list of available plans.

P..	Plan version	Active	Current
**		<input type="checkbox"/>	<input type="checkbox"/>
.	Never use	<input type="checkbox"/>	<input type="checkbox"/>
00	Templates	<input type="checkbox"/>	<input type="checkbox"/>
01	Current plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
02	Alternative plan/tech.	<input type="checkbox"/>	<input type="checkbox"/>
03	Alternative plan/org.	<input type="checkbox"/>	<input type="checkbox"/>
10	Organizational Management	<input type="checkbox"/>	<input type="checkbox"/>
AL	ALE - Customer model	<input type="checkbox"/>	<input type="checkbox"/>
MS	International comp.	<input type="checkbox"/>	<input type="checkbox"/>
RA	Room Reservations	<input type="checkbox"/>	<input type="checkbox"/>
ZT		<input type="checkbox"/>	<input type="checkbox"/>

Organizational Object Types

An Organization plan consists of various object types, which define the grouping of similar data together. Each object type consists of a unique object key. All object types are linked together with a relationship among each other.

Example: A person holding a position that is defined by a specific job.

Relationship

In an Organization plan, relationships are used to link different object types.

Example: A person holding a position in an organization and is assigned with cost center. It defines Person to position relationship and position to Organization unit.

While defining an hierarchical organization structure, you are creating a relationship between organization objects. When a person is holding a position in an organization unit, it means there is relationship between the position object and the organization object.

Validity

It determines the life of object types. At the time of object creation, you enter the start and the end time of the project and this determines the validity of the object.

There are various types of object types that can be defined in an organization plan. Given below are most common object types and their keys-

Object Type	Key
Organizational Unit	O
Person	P
Cost Center	K
Position	S
Job	C

Key Features of Organization Objects

The key features are:

- You can create or change an existing object types, which are not managed.
Example- Object type person from HR Master Data.
- You can also define the relationship between different object types that should be proposed in the course of the authorization check.
- It is also possible to define an object type hierarchy to generate reporting.
- It is also possible to change the key of standard objects type- "S" for Position, "T" for task.

There are two types of Relationships-

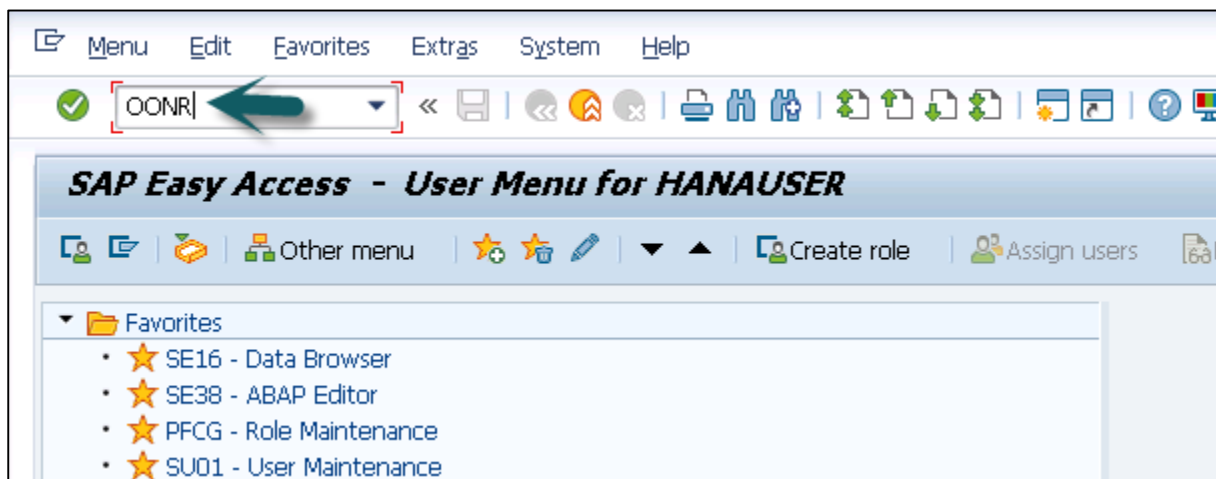
- Relationships with the same object types.
- Relationships with different object types.

Number Ranges

You can maintain different number ranges for Organization Management and Personnel administration in SAP HR. As discussed in previous topic, OM contains different object types.

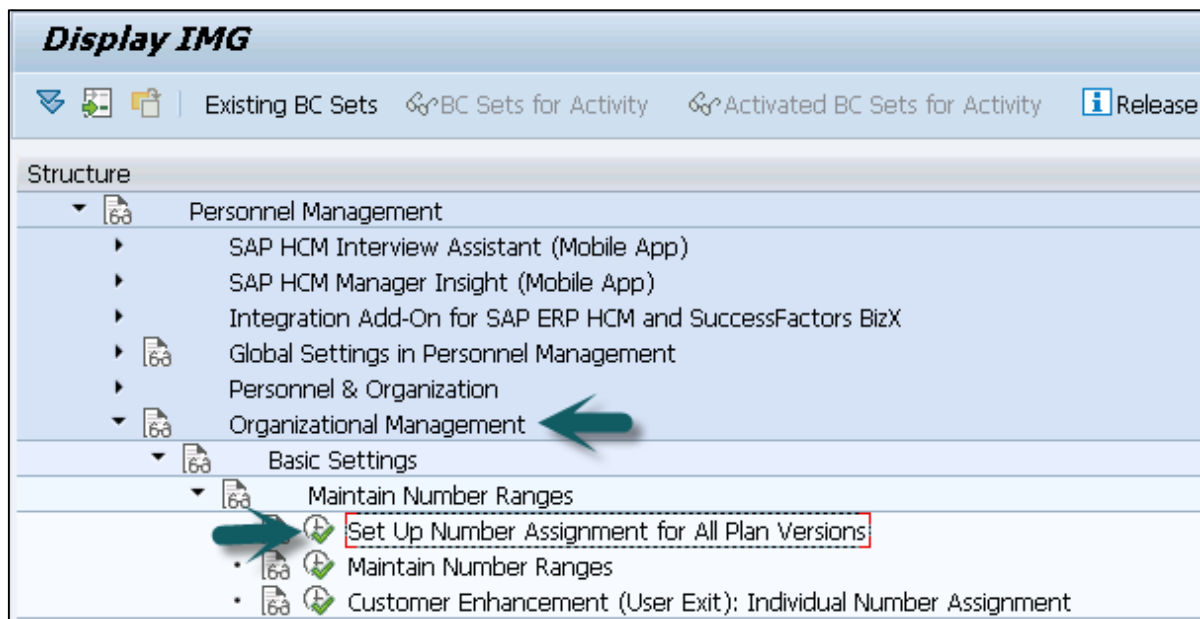
Object Type	Key
Organizational Unit	O
Person	P
Cost Center	K
Position	S
Job	C

To maintain the different number ranges for OM objects, you can use **T-Code: OONR**.

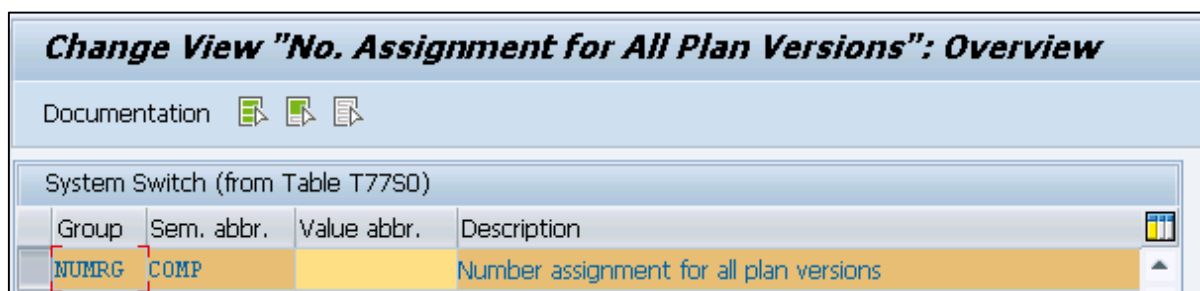


You can also choose the following path.

Go to IMG-> Personnel management-> Organizational management-> Basic settings-> Maintain number ranges -> set up number assignment for all plan versions -> Execute.



The first two digits represent your plan version and the next two letters represent the object type.

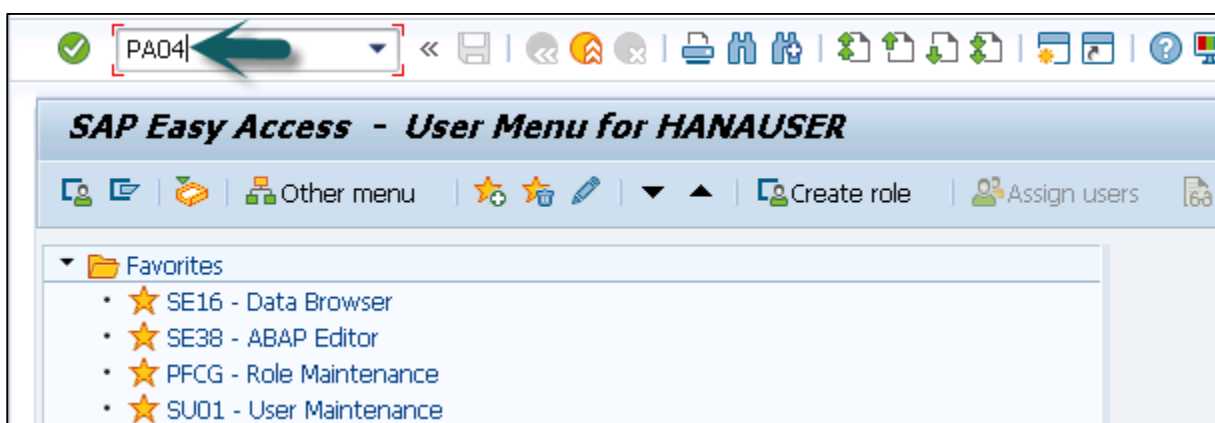


Similarly, you can maintain number ranges for personnel numbers. A Personnel number is generated when an employee is hired. It can be generated internally or externally.

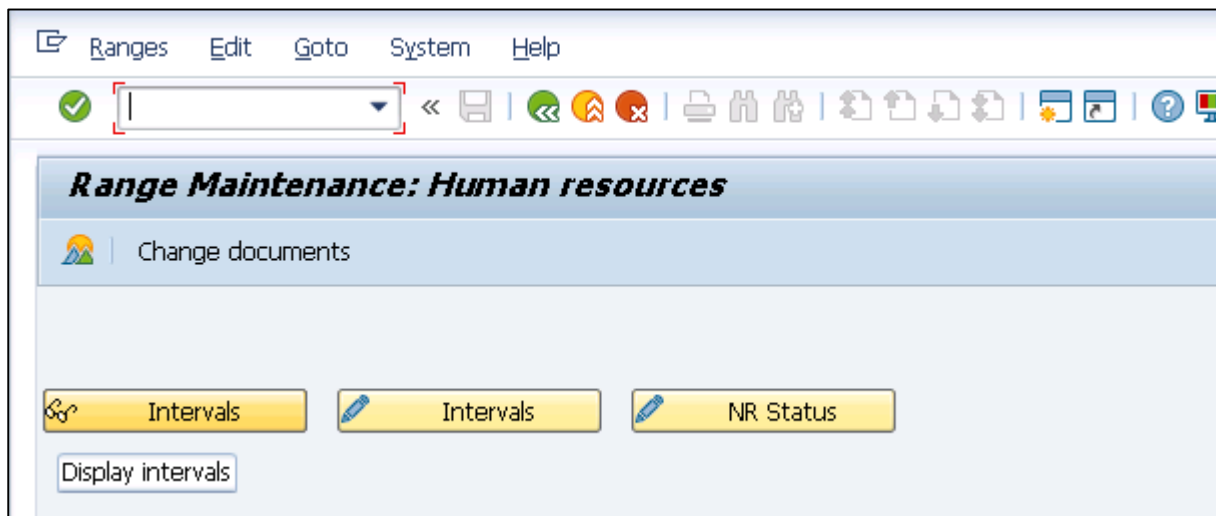
The personnel number range whether internal or external should be defined at the following configuration node.

1. Use T-code: PA04

2. You can also go to SPRO -> IMG-> Personnel management-> Personnel Administration -> Basic settings->Maintain number range intervals for personnel numbers.



3. A new window opens. You will see **Range Maintenance: Human resources**. Go to **Intervals** to display intervals.



4. It will open a new window, **Maintain Intervals: Human resources**. You can check different number ranges for personnel number as shown below:

N.	From No.	To Number	NR Status	Ext
01	00000001	00069999	0	<input checked="" type="checkbox"/>
02	00070000	00079999	70354	<input type="checkbox"/>
03	00080000	09000000	0	<input checked="" type="checkbox"/>
04	99990001	99995000	0	<input checked="" type="checkbox"/>
05	09000001	99990000	0	<input checked="" type="checkbox"/>
06	99995001	99999999	0	<input checked="" type="checkbox"/>

The NR Status indicates the last personnel number assigned/used up for that respective MOLGA. MOLGA Is used to support multi-country human resource management.

2. SAP HR – Maintaining Relationships

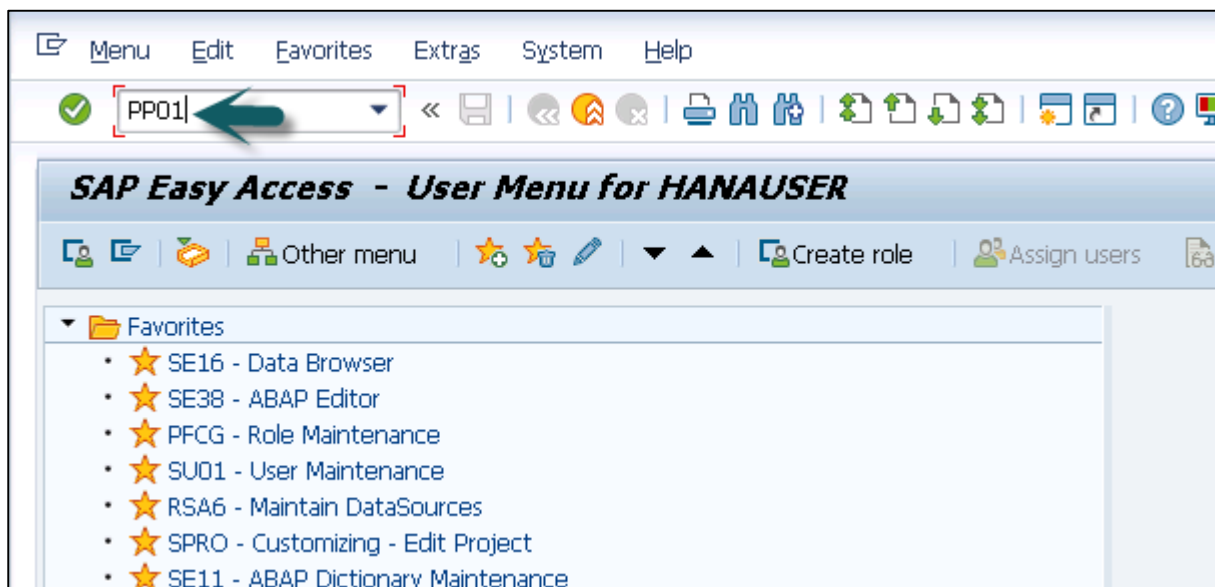
In an Organization plan, relationships are used to link different object types.

Example: A person holding a position in an organization is assigned with cost center. It defines a Person to position relationship and position to Organization unit.

While defining a hierarchical organization structure, it means you are creating a relationship between organization objects. When a person is holding a position in an organization unit, it means there is relationship between position object and organization object.

A relationship can be created in both the ways- top down and bottom approach. These relationships are normally maintained in **HRP001** table. If these relationships are not standard, you may need additional tables.

To maintain relationship, use **T-Code: PP01 or PP03**.



A new window will open with the name **Maintain Object**.

Select the Object type, enter position number, give relationship and click create (F5).

Maintain object

Find by:

- Position
 - Search Term
 - Structure Search

Plan Version: Current plan

Object Type: Position

Object ID: 50027298 Service Technician

Object abbr.: Serv.Tech

Active | Planned | Submitted | Approved | Rejected

Relationships

Time period

Period

From: 13.09.2015 to: 31.12.9999

Today | All | From curr.date | To current date

Current week | Current month | Last week | Last month | Current Year

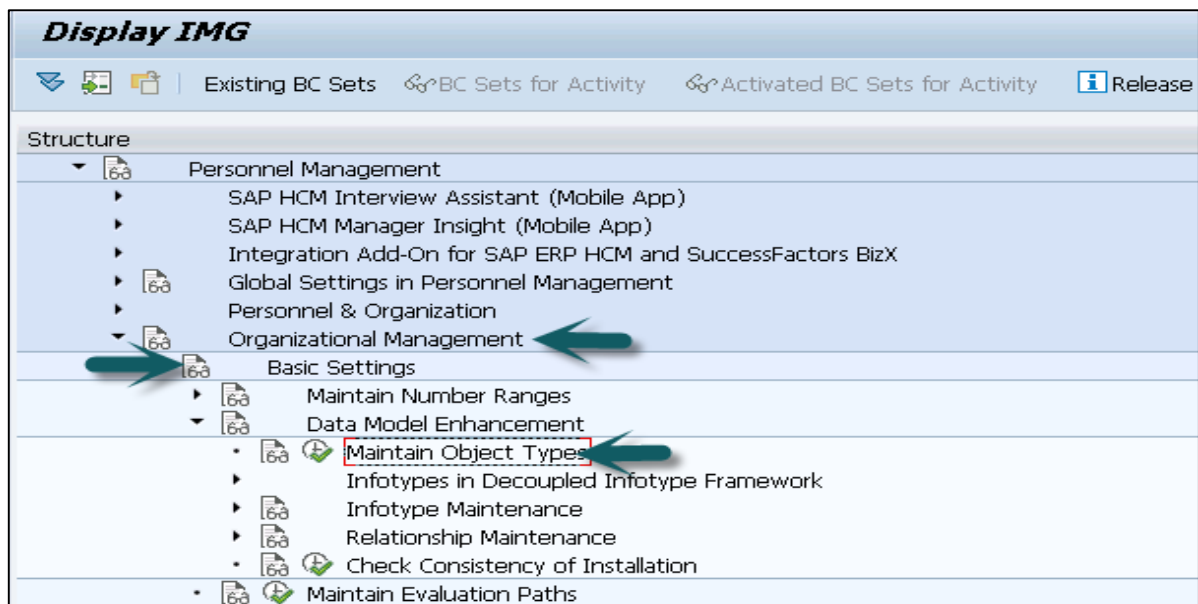
Select.

Object Types and Essential Relationships

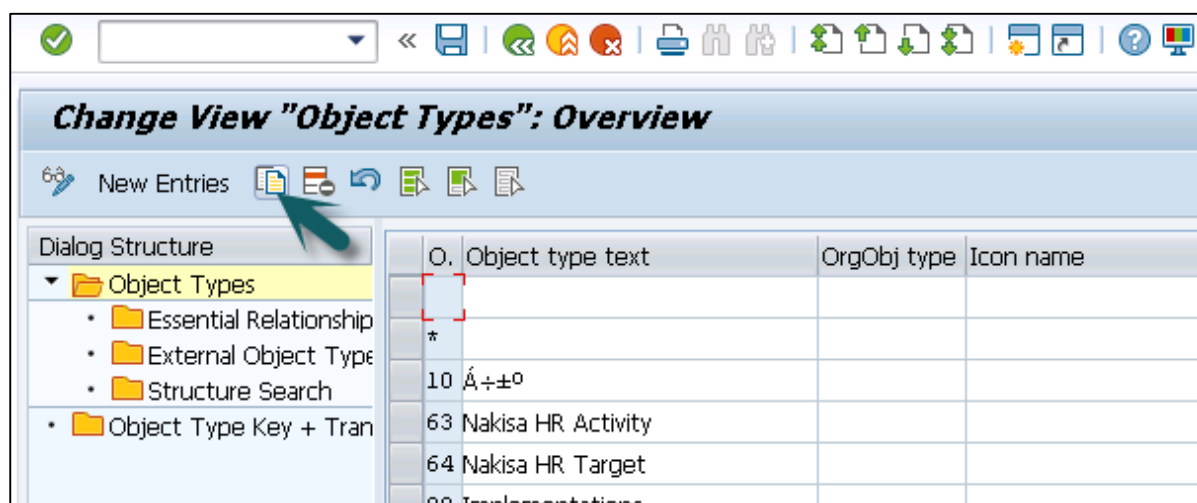
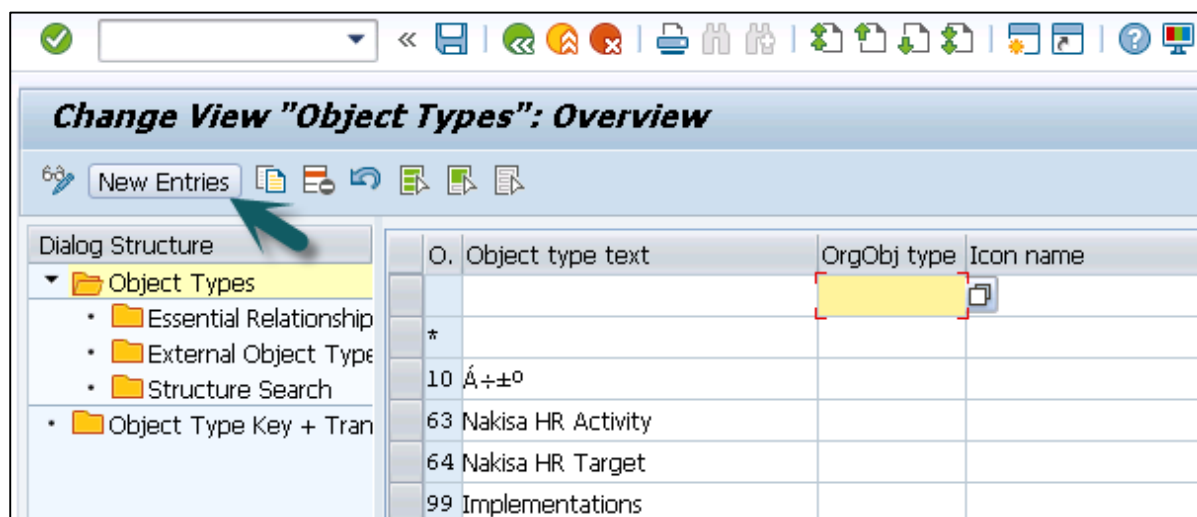
Go to SPRO -> IMG -> Personnel Management -> Organizational Management -> Basic Settings -> Data model enhancement -> Maintain Object Types -> Execute

To create new object type and assigning relationships follow the steps given below.

1. Create new object type and assign essential relationships.
2. Assign object to the required Infotypes.
3. Maintain subtypes.
4. Maintain personnel actions.
5. Assign number range.
6. Maintain object via PP03 or PP01.

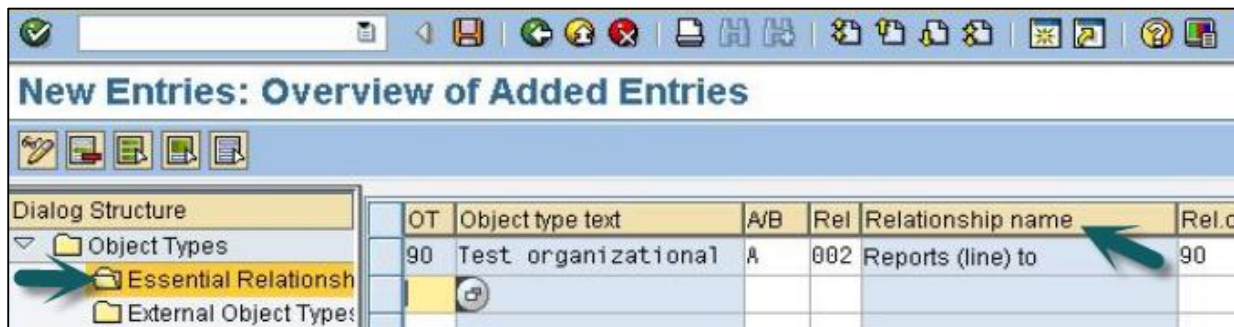


7. Go to the **Change View "Object Types": Overview** window. Click **New Entries** to create a new object type. You can also copy an existing object type.



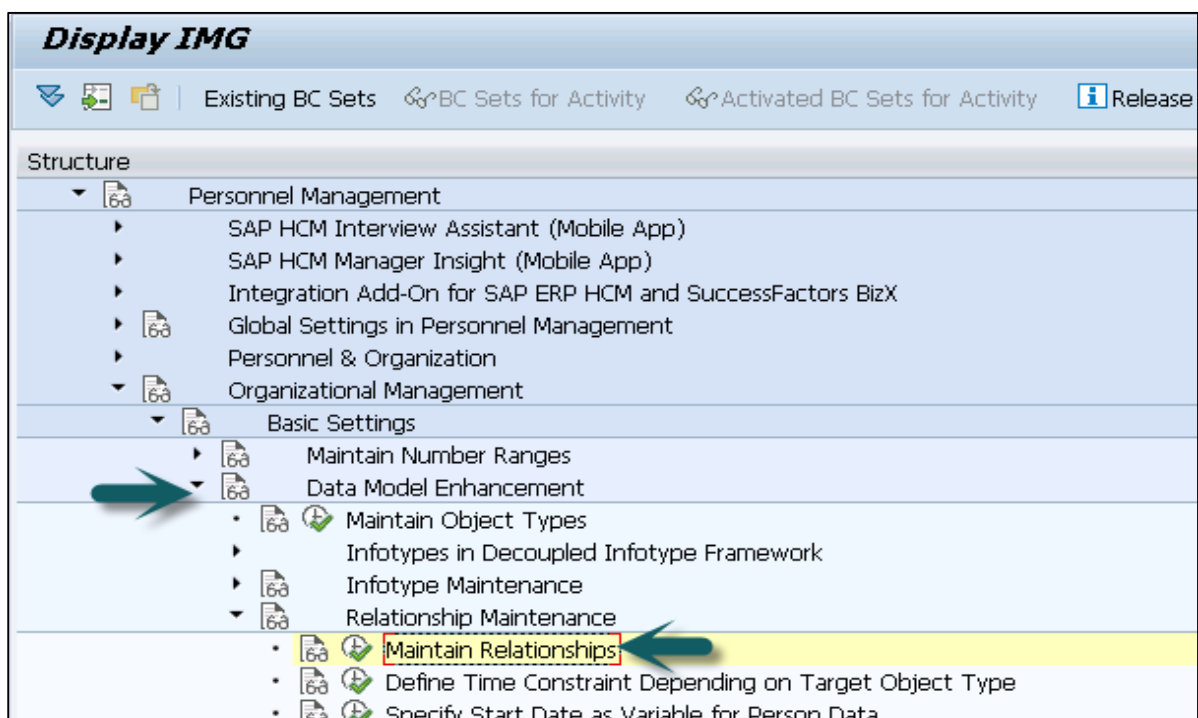
8. Enter Object type text, code, etc. When the object is created, assign essential relationships to it by clicking on essential relationships on the left side.

- Assigning a relationship means that once an object is created, the assigned relationships are mandatory to be maintained.
- Maintaining Object types is available in Table: T7780
- Maintaining Essential relationship is available in Table: T7750



Relationship Maintenance

For maintaining relationship in SAP HR module, go to SPRO -> IMG -> Personnel Management -> Organizational Management -> Basic Settings -> Data model enhancement -> Relationship Maintenance -> Maintain Relationships -> Execute



In the left pane, go to **Allowed Relationships**, select the relationship you want to maintain, click **Position**.

Change View "Links": Overview

New Entries

Dialog Structure

- Links
 - Relationship Character
 - Additional Data on Re
 - Allowed Relationships
 - External Relationships
 - Time constraints
 - Relationship abbreviation

Relat'ship	Relationship bottom up	Relationship top
*		
001	Is a subdivision of	Is subdivided int
002	Reports (line) to	Is line supervisor
003	Belongs to	Incorporates
004	Is subordinate to (disc.)	Is disc.superviso
005	Is subordinate to	Is supervisor of
006	Substitutes for	Is substituted b
007	Describes	Is described by
008	Holder	Holder
009	Successor	Successor
010	Substitute	Substitute
011	Cost center assignment	Cost center assi
012	Manages...	Is managed by..
013	Staffing requirement	Staffing requirer
014	Cost distribution	Cost distribution
015	Is identical to	Is identical to
017	Is carried out by	Carries out
018	Previous org. assignment	Previous org. as
019	Planned org. change	Planned org. ch
020	Is a specialization of	Is a generalizati
021	Is equipped with	Is contained in

Position... Entry 1 of 2

3. SAP HR – Time Constraints

Time constraints are used to determine how the object type exists and how they will be updated in the HR system.

You can also define time constraints for object types in Organization management to have a suitable system. You need not to keep orphan object types in the system.

- O- O -> Time Constraint 1
- O- S -> Time Constraint 2
- O- K -> Time Constraint 3
- S- O -> Time Constraint 4
- S - P -> Time Constraint 5

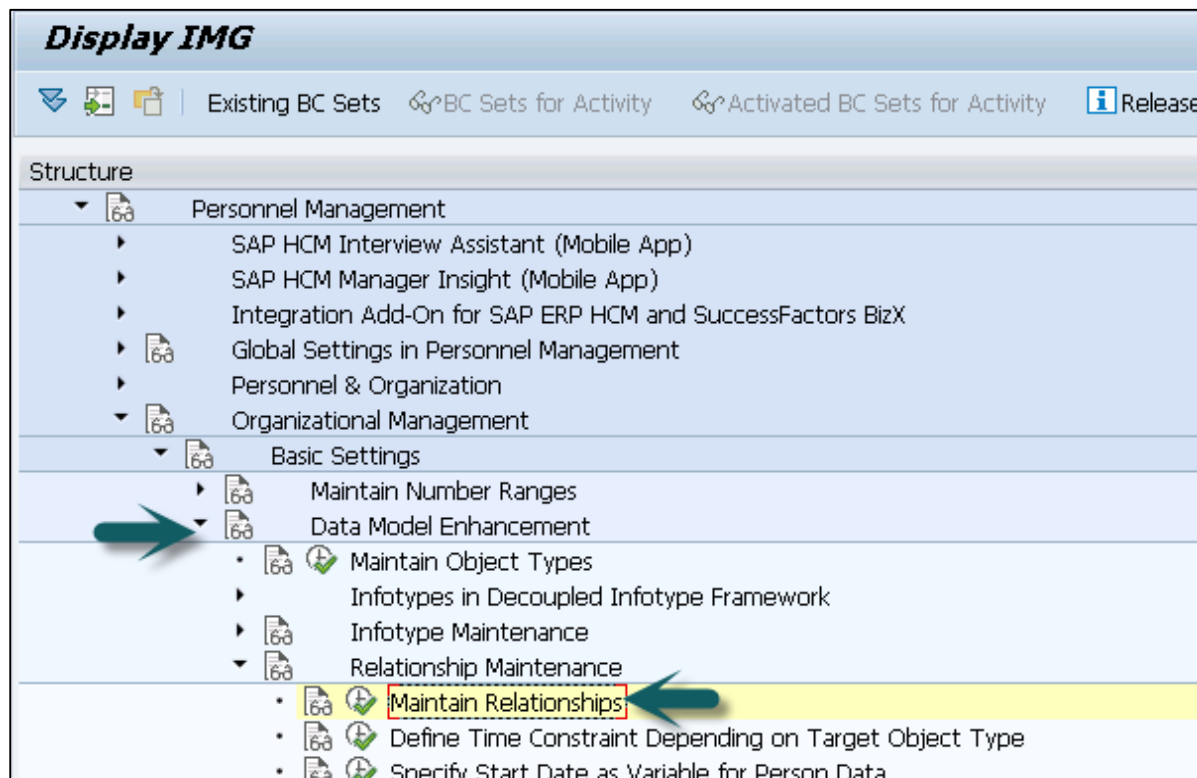
There are three types of time constraints-

- **Time Constraint 1** is mandatory for a record to exist in the HR system and can exist one at any point of time.
- **Time Constraint 2** is not mandatory for a record but only one exists at any point of time.
- **Time Constraint 3** is not mandatory for a record and can have many at any point of time.

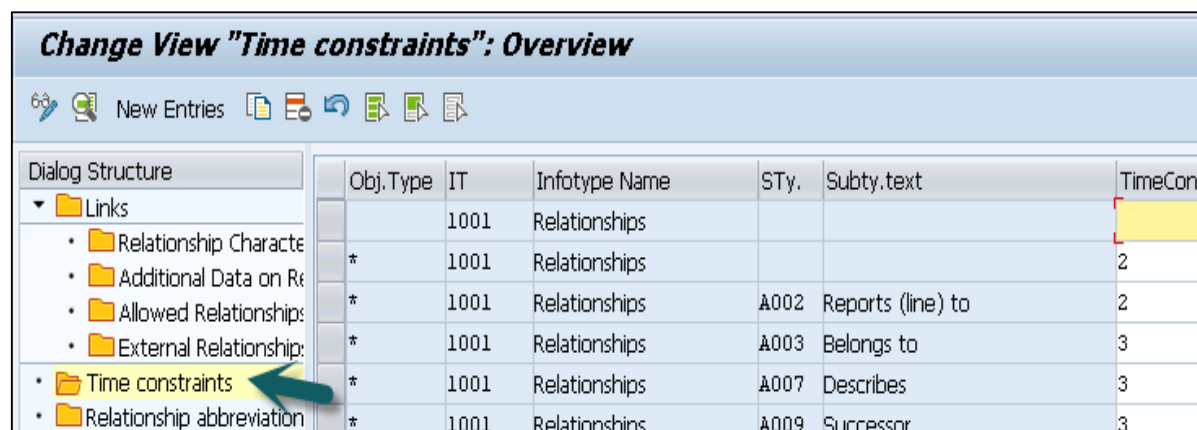
Assigning Time Constraints to a relation

1. To assign time constraints to a relation, you have to use:

SPRO -> IMG -> Personnel Management -> Organizational Management -> Basic Settings -> Data model enhancement -> Relationship Maintenance -> Maintain Relationships -> Execute



2. In the left pane, go to the Time constraint tab as shown in the image given below-



You can assign appropriate time constraints to the given relationship.

Infotypes reactions as per time constraints:

- **Time Constraint 1** – Record must have no gaps, no overlapping. If you select this Time Constraint, there should not be any gaps nor overlapping. This TC is generally used for Infotypes like, 0001, 0008, 0009 etc. where there is only one valid record.
- **Time Constraint 2** – This TC includes those records that can include gaps but there should be no overlapping. If you select this TC, it means that you can have

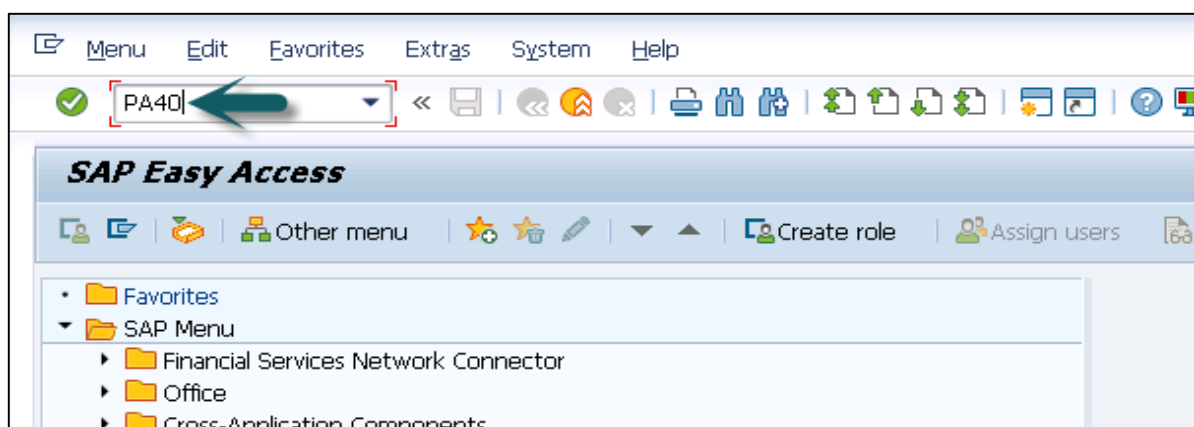
gaps but NO overlapping. Consider an example of the marital status of an employee. The employee has a spouse but a gap can occur in case he is divorced.

- **Time Constraint 3** – This TC includes records that can have gaps and can exist multiple times. For example, Infotype IT0014 can have multiple records in that particular Infotype at the same time with overlapping.

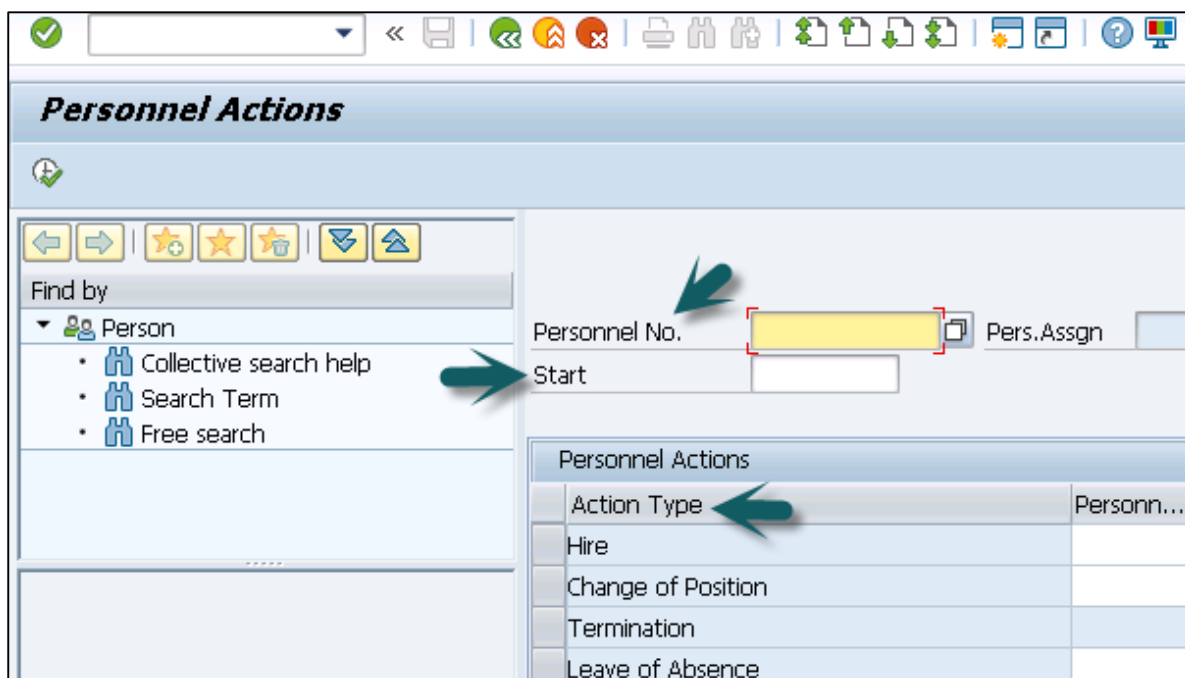
Maintaining Personnel Actions

In SAP HR system, personnel actions are performed for all the Infotypes that require data to be entered in the HR system. Common Infotypes that require a personnel action are hiring a new employee, termination of an employee, etc.

1. To perform a Personnel action, use T-Code: **PA 40** or go to SPRO -> IMG -> Personnel Management -> Personnel Administration -> Customizing Procedures -> Actions



2. A new window 'Personnel Actions' opens.



The screen consists of the following fields-

- **Personnel No.:** This field has an employee's personnel number. When a new employee is hired, it is generated automatically by the system.
- **Start:** This field shows the start date of the personnel action.
- **Action Type:** In this field, you have to select the action type that needs to be performed.

Example

Let us understand how a new employee is hired in SAP HR system.

1. Enter the hiring date as shown below.
2. From Action type, select **Hire**.
3. Click the **Execute** button given on top.

Personnel Actions

Find by

- Person
 - Collective search help
 - Search Term
 - Free search

Personnel No. Pers.Assgn

Start

Personnel Actions	
Action Type	Personn...
Hire	
Change of Position	
Termination	
Leave of Absence	

A new window will open. Enter details like Reason for action, Personnel area, Employee group and sub group, etc. and click the Save icon at the top.

4. SAP HR – Maintaining Infotypes

In SAP HR system, Infotypes are used to store the data for all the personnel actions and administrative tasks in the system. Infotypes are known as small units of information in SAP HR system.

Infotypes group the similar data together and define structure, enter data and define the information for specific period of time.

Components of Infotypes

An Infotype consists of the following components-

Structure

An Infotype contains a set of similar data records in the form of data structure. Infotype contains series of information like first name, last name, date of birth, marital status, etc. When an Infotype is updated in the system, old data is not removed from the system but time is delimited.

Data Entry

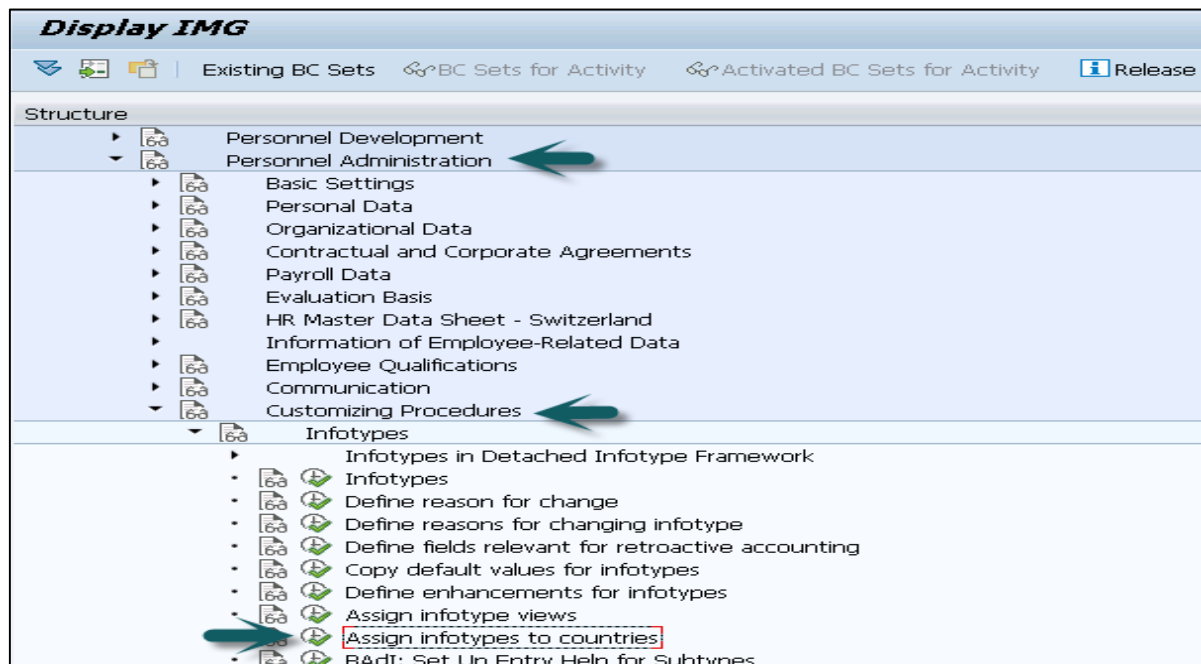
You can enter predefined values for Infotype that helps in fetching and maintaining the data in the system. Entries in HR system are checked automatically for accuracy. Default value checks depend on the employee organization assignment.

Time Dependency

When an Infotype is updated in the system, old data is not erased. It is stored in the system for historical evaluation purpose. This allows each Infotype to have multiple records but all the records may vary as per their validity.

Time based reaction of Infotype is defined in the Time constraint field. Infotype 0000 to 0999 are Personnel Administration Infotypes. It is also possible to define permissibility of Infotype for each country, this allows you to restrict Infotype while editing the master data.

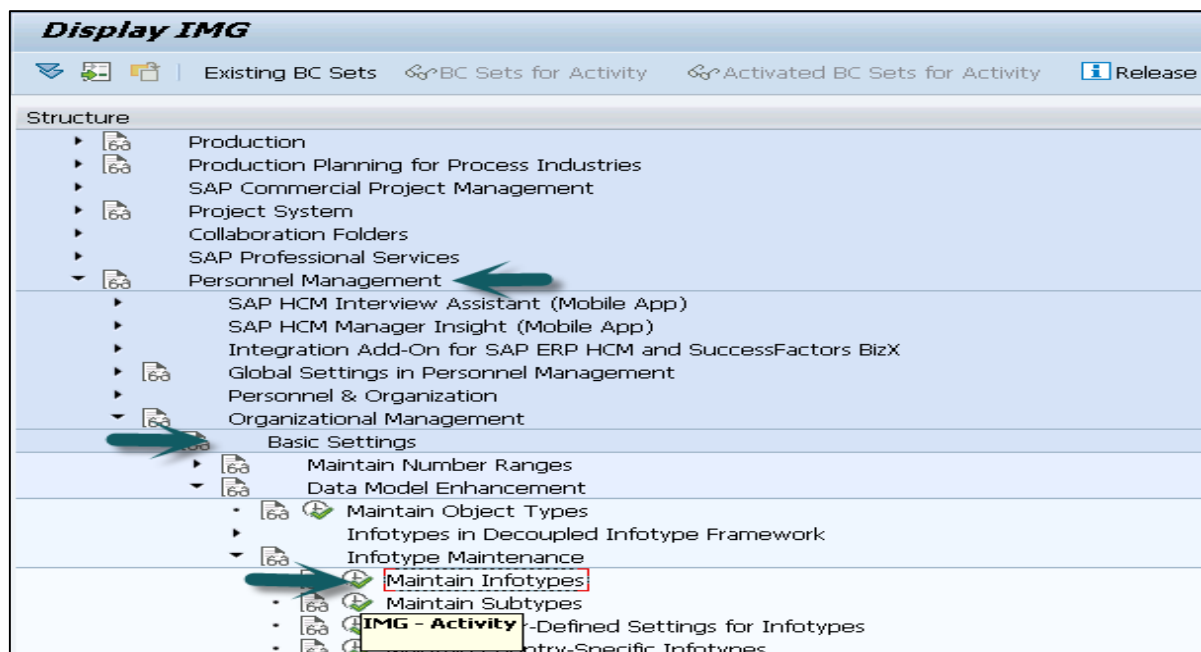
Go to SPRO -> IMG -> Personnel Management -> Personnel Administration-> Customizing Procedures -> Infotypes -> Assign Infotypes to Countries



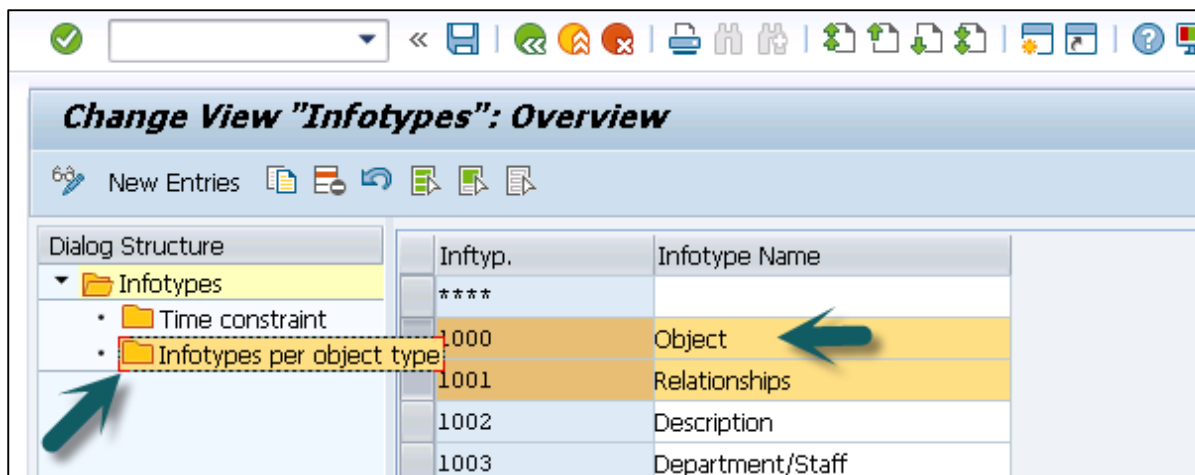
How to Maintain Infotypes?

To maintain Infotype, follow the steps given below:

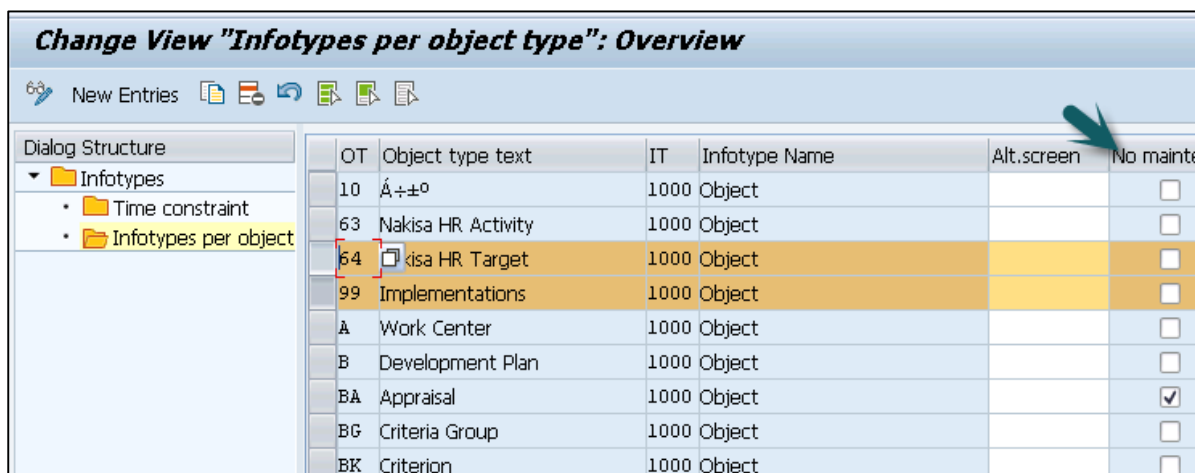
1. Go to SPRO -> IMG -> Personnel Management -> Organizational Management -> Basic Setting -> Data model enhancement -> Infotype Maintenance -> Maintain Infotypes -> Execute



2. Select the Infotypes to which the newly created custom object needs to be assigned. Select the Infotype and click the **Infotypes per object type** option.



3. To assign custom objects to Infotype, click the **New Entries** option. You can uncheck the **No Maintenance** check box such that you can maintain custom objects via Organization Management transactions **PP01**.



Maintaining Info Subtypes

Info Subtypes are known as sub units of an Infotype. Using subtype, you can easily manage and access the data in HR system and can control the Infotypes. You can easily assign different features to control the data like time constraints to sub types.

You can assign different control features to sub types as per requirement like TC1, TC2, and TC3.

Example

Consider the example of an Infotype Addresses (0006). Following are the subtypes-

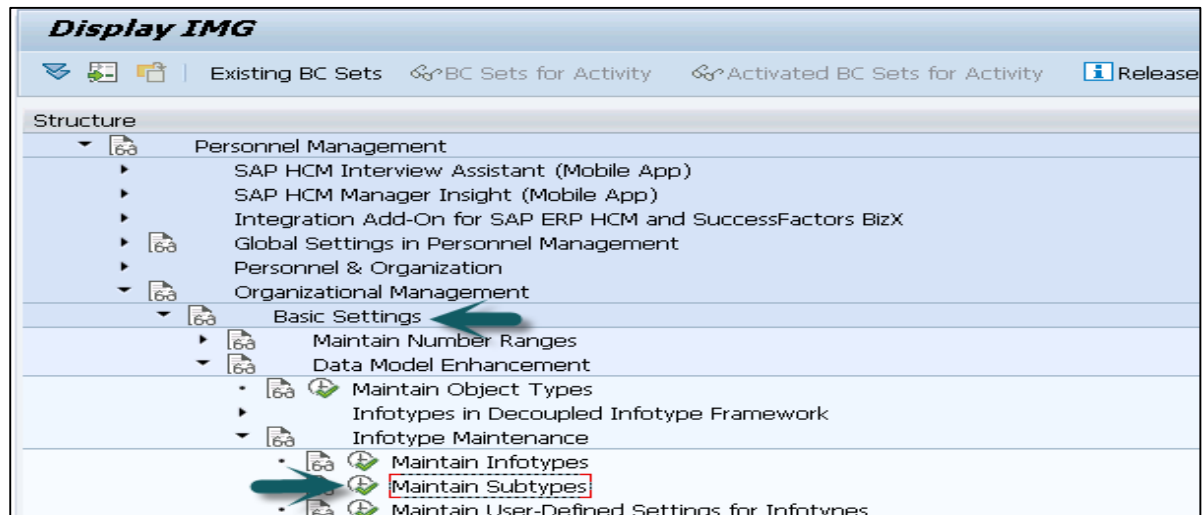
- **Subtype 1** – Permanent Residence address
- **Subtype 2** – Temporary address
- **Subtype 3** – Home address

Considering Control feature – Time constraint for this Infotype, you should use TC-3 for Infotype Addresses, as we need to pass multiple values. Permanent Residence address subtype should be Time Constraint -1. Home address can exist once at any one time, hence it is Time Constraint -2.

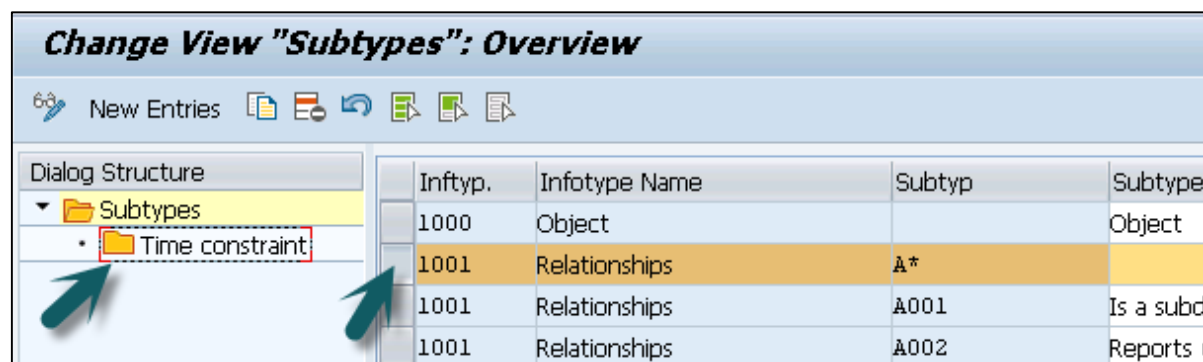
How to maintain subtypes?

To maintain subtypes -

1. Go to SPRO - > IMG -> Personnel Management - > Organizational Management - > Data model enhancement - > Infotype Maintenance - > Maintain subtypes -> Execute



2. To maintain subtype, select the subtype in the next window. In the left pane, you have an option to add control feature - Time Constraint.



3. Double click the Time constraint in the left pane, a new window 'Change View "Time Constraint": Overview' will open.

Change View "Time constraint": Overview

New Entries

Dialog Structure	OT	IT	Infotype Name	STy.	Subtype text	TimeConstr
Subtypes						
Time constraint	*	1001	Relationships	A002	Reports (line) to	2
	0	1001	Relationships	A002	Reports (line) to	2
	0F	1001	Relationships	A002	Reports (line) to	2
	0L	1001	Relationships	A002	Reports (line) to	2
	S	1001	Relationships	A002	Reports (line) to	2
	ZP	1001	Relationships	A002	Reports (line) to	2

Personnel Administration

5. SAP HR – Personnel Administration

SAP HR - Personnel administration consists of many individual pieces of information, which are stored, updated and managed for each employee in HR system.

To manage personnel data related to tasks in HR system, you need Personnel Administration. There are various Infotypes that can be used for Personnel Administration.

Commonly used Personnel Administration Infotypes are-

- Organization Management Infotypes
- Time Management Infotypes
- Recruitment Infotypes

Organization Structure

Organizational structures is used in HR to plan and map the organizational levels of an organization to control and simplify processes such as time recording and payroll. Typical components in an organizational structures include:

- Enterprise structure
- Pay scale structure
- Wage types
- Personnel structure
- User authorizations

In Organization hierarchy, you define the subdivision of company into personnel areas, sub areas, company code, etc. Using different grouping, you can create organizational hierarchies and control functions. Using grouping, you can set up enterprise and personnel structure that are independent of each other.

By assigning an employee to personnel and enterprise structure, you can easily process human resource data of an employee. By using the default values, it is easy to manage data for different fields.

To evaluate human resource data, you can use the Organizational structures for creating evaluations and analyses of employee data for Controlling and departments.

Enterprise Structure

Enterprise structure of an organization is defined as structure to manage Personnel administration, payroll processing, and time management for a company. Enterprise structure defines the key components in a company and their relationship with each other.

Key components in an Enterprise Structure include-

- Client
- Company Code
- Personnel area
- Personnel subarea
- Organizational Key

The enterprise structure in "Personnel Administration" consists of the following:

Client

A client is known as an organizational and data technical isolated unit in SAP ERP system and each unit has separate master records and its own separate record of tables.

Company code

It is called the smallest organizational unit of external accounting in which a complete and isolated financial accounting can be created. Example: Profit and loss calculation, balance sheets are contained within the company code organizational units.

Personnel area

The personnel area is used in Personnel Administration in HR system and is unique within a client.

Important features are:

- A Personnel area is subdivided into subareas.
- Organizational data and steps to assign it are stored on a personnel area and subarea. The guidelines can include pay scale, legal or collective agreement, etc.
- A personnel area is assigned to the company code to manage financial accounting values.
- A pay scale area, a pay scale type and a public holiday calendar are precisely defined for a personnel subarea.

Personnel subarea

The personnel subarea is used only in Personnel Administration in SAP ERP. The groupings linked to the personnel subarea determine which entries from the subsequent screen are allowed for an employee of a particular company code.

Example:

The personnel area in a software company can be subdivided into development, training and administration personnel subareas.

Groupings are used for validation of master and time data. Groupings are also used to check the plausibility of data that you enter.

Organizational key

Using an Organizational key, you can define the organizational assignment more precisely. An organizational key can consist objects from enterprise structure and personnel structure.

Personnel Structure

Personnel structure is used to define an employee's position in an organization. Personnel structure can be divided into two parts-

- Administrative Structure
- Organizational Structure

Administrative Personnel Structure

It consists of the following objects-

- Employee group
- Employee subgroup
- Payroll area
- Organizational Key: Organizational key consists of both personnel and enterprise structure. Employee group and subgroup can also participate while defining an Organizational key.

Organizational Personnel Structure

It consists of the following elements-

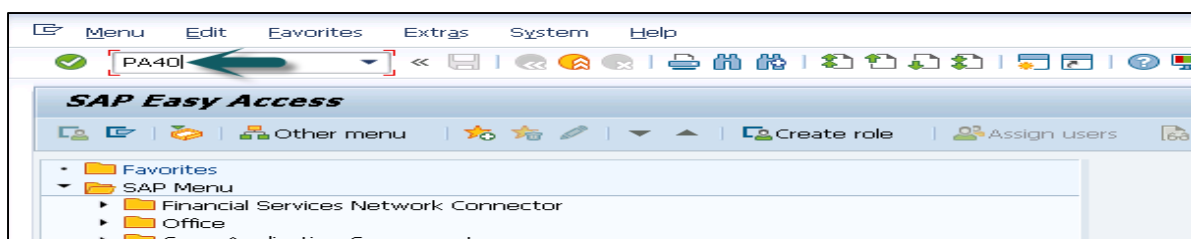
- Position
- Job
- Organizational unit

To assign an employee to the Personnel structure, use hiring as personnel action as mentioned in the previous topic. This is stored in Organizational Infotype 0001.

Hiring an Employee

To perform a Personnel action, follow the steps given below-

1. Use T-Code: PA 40 or go to SPRO -> IMG -> Personnel Management -> Personnel Administration -> Customizing Procedures -> Actions



2. A new window Personnel Actions opens.

Personnel Actions

Find by

- Person
 - Collective search help
 - Search Term
 - Free search

Personnel No. Pers. Assgn

Start

Personnel Actions

Action Type	Personn...
Hire	
Change of Position	
Termination	
Leave of Absence	

It consists of the following fields-

- **Personnel No-** This field has an employee's personnel number. When a new employee is hired, it is generated automatically by the system.
- **Start-** This field shows the start-date of the personnel action.
- **Action Type-** In this field, you have to select the action type that needs to be performed.

3. The next step is to enter the hiring date as shown below. From the menu of Action type, select Hire. Click the Execute option at top.

Personnel Actions

Find by

Person

- Collective search help
- Search Term
- Free search

Personnel No. Pers. Assgn

Start

Personnel Actions	
Action Type	Personn...
Hire	
Change of Position	
Termination	
Leave of Absence	

4. In the next window, enter the details like Reason for action, Personnel area, Employee group and sub group, etc. and click the Save icon at the top.

6. SAP HR – HR Master Data

Maintaining the HR Master Data function allows you to maintain employee data tasks like entering the data, update, etc.

Data related to an employee is entered in various Infotypes. For example, Infotype 0002 contains personal information of an employee like name, date of birth, marital status, etc. Infotypes are used to group similar data and makes it easier to process.

Maintaining HR Master Data function allows you to access an employee's Infotype records individually. Similarly, you can use fast entry function to maintain employee data simultaneously for multiple employees.

Performing a Personnel action in HR system like hiring an employee, involves entering huge data in the system. You have to enter series of Infotype information related to an employee.

HR Master Data Structure

The key components for HR Master Data in SAP Human Capital Management system are as follows-

- Information type or known as Infotype
- Information subtype or known as Info subtype
- Object Identification to differentiate between data records
- Data structure elements characteristics
- Relationship

Processing HR Master Data

There are many functions, which can be used to process HR master data in system. These allow you to create or edit the existing records in the system.

Create function

The **Create function** allows you to enter the new Infotype record in the system. You can create new Infotype record and in addition, retain the old records in the system. Validity of new record is defined.

Change function

The **Change function** is used to edit an existing Infotype without creating a new Infotype. Using the change function, the previous value of Infotype is changed and any previous value is not stored.

Delete function

The Delete function allows you to delete an Infotype record in the HR system. When you delete an Infotype record with time constraint 1, it extends the previous record automatically.

Copy function

The Copy function allows you to create a new Infotype record and update history. This function does not enter data on a new screen but asks to enter information on a screen containing the data.

Display function

You can use the Display function to view an Infotype on the screen. In display mode, you cannot process or update data.

Using the List function, you can display an overview of all the records stored for a specified Infotype.

Selecting HR Master Data

To access an employee data, you must enter the employee's personnel number and the Infotype whose data records you want to process. You can find personnel numbers, even if you do not know them exactly, by using the Search Help for Personnel Numbers.

Once you search an employee, you can check the employee Infotype record in the system. Infotype search can be performed using the following methods-

- Selecting an Infotype by name or number – You can perform a search for an Infotype if you know its name or number.
- Selecting an Infotype using functional area – You can also search an Infotype using functional area as SAP HCM system contains similar Intotypes group together.
 - Personal Data
 - Payroll Data
- Selecting Infotype using text – You can also search an Infotype by typing text search term. System displays all the Infotype whose name matches the search item.
- Selecting an Infotype using Personnel file – You can also search an Infotype using a personnel file.

7. SAP HR – Infotypes

Infotype is used to store personal data about an employee. An Infotype contains four digit code and name of Infotype.

Example: Infotype 002 contains employee personal data- like name, date of birth, marital status, etc.

Each Infotype has two fields-

- **Mandate fields:** A tick mark sign in the field box represents these fields.
- **Option fields:** These fields are not mandatory and can have a blank value.

There are predefined number ranges that SAP has defined for Infotype.

- HR and Payroll Data Infotype -> 0000 to 0999
- Organizational Data -> Infotype 1000 to 1999
- Time Data -> Infotype 2000 to 2999

You can further divide an Infotype into groups, which are called subtypes. For example, an Infotype Address, Infotype 0006 can be divided into subtypes- Permanent Residence and Emergency address.

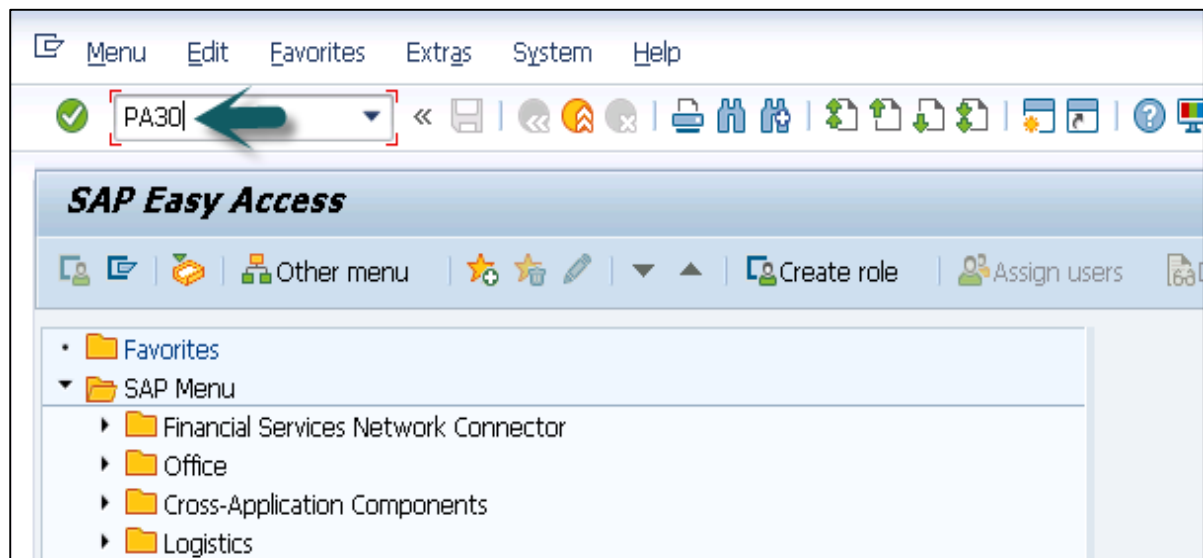
The image shows two screenshots from the SAP HR system. The top screenshot displays the 'Infotype text' configuration screen for Infotype 'E'. It lists various data groups with checkboxes indicating their status: Actions (checked), Organizational Assignment (checked), Personal Data (checked), Addresses (checked), Bank Details (checked), Family Member/Dependents (unchecked), and Education (unchecked). To the right, there is a 'Period' selection area with radio buttons for 'Period', 'Today', 'All', 'From curr.date', 'Up to Today', 'Current Period', 'Curr.week', 'Current month', 'Last week', 'Last month', and 'Current Year'. The bottom screenshot shows a table of subtypes for the 'Addresses' infotype. The table has two columns: 'STyp' and 'Name'. The subtypes listed are: 1 Permanent residence, 3 Home address, 4 Emergency address, 5 Mailing address, and 6 Nursing address. A red arrow points from the 'Addresses' infotype in the top screenshot to the subtype list in the bottom screenshot.

STyp	Name
1	Permanent residence
3	Home address
4	Emergency address
5	Mailing address
6	Nursing address

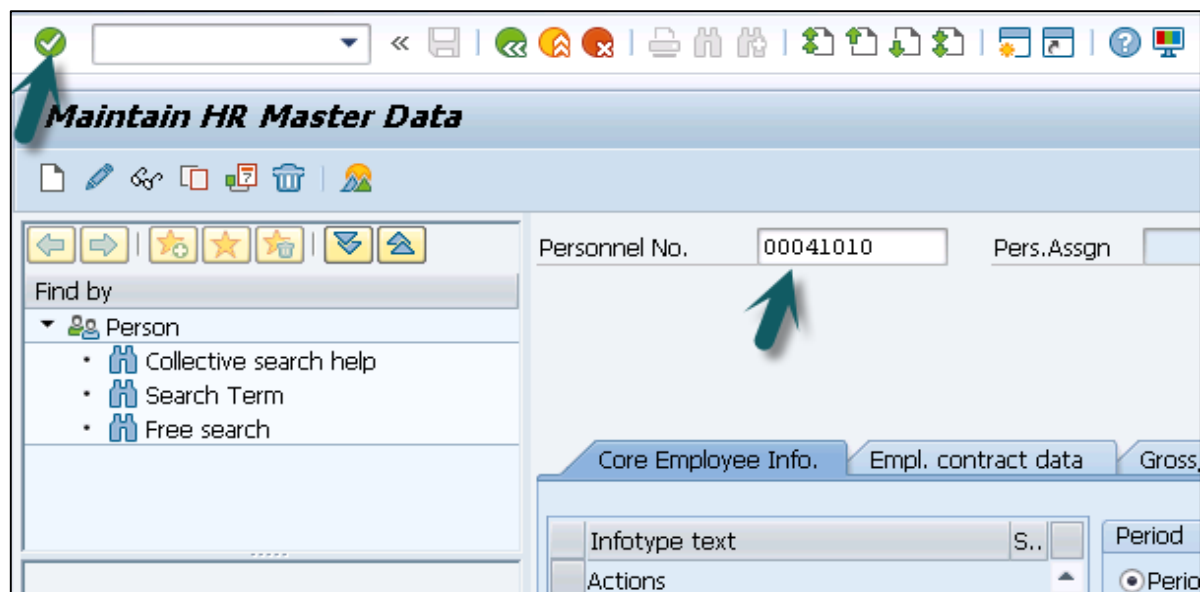
Creating an Infotype

To create an Infotype follow the given steps-

1. Use T-code: PA30



2. A new window **Maintain HR Master Data** opens. Enter the personnel number and press Enter.



3. Enter the Infotype you wish to select for a new record and click the Create button.

In the Period section, select the start and the end date for an Infotype.

Maintain HR Master Data

Personnel No. 41010 Pers. Assign 00041010

Name 이영애

EE group 1 Active Pers. area KR01 Personnel area

EE subgroup KR Monthly wage ... Cost Center 2000

Core Employee Info. Empl. contract data Gross/net payroll Net payroll

Infotype text S..

Actions

Organizational Assignment

Personal Data

Addresses

Bank Details

Family Member/Dependents

Challenge

Internal Medical Service

Maternity Protection/Parental Leave

Period

Period

From 23.09.2015 To 23.09.2015

Today Curr. week

All Current month

From curr. date Last week

To Current Date Last month

Current Period Current Year

Choose

Direct selection

Infotype 0006 STy

4. In the next window, select Personnel action. Once you enter all the details click Save.

Copy Actions

Execute info group Change info group

Pers. No. 41010 Pers. Assign 00041010

Pers. No. 41010 Age

EE group 1 Active Pers. area KR01

EE subgroup KR Monthly wage ear ... Cost Center 2000

Start 01.01.2002 to 31.12.9999

Personnel action

Action Type Hiring (KR)

Reason for Action Probation

Status

Customer-specific

Employment Active

Special payment

Organizational assignment

Position 50006460 Specialist

Personnel area KR01 Personnel area KR01

Employee group 1 Active

Employee subgroup KR Monthly wage earner

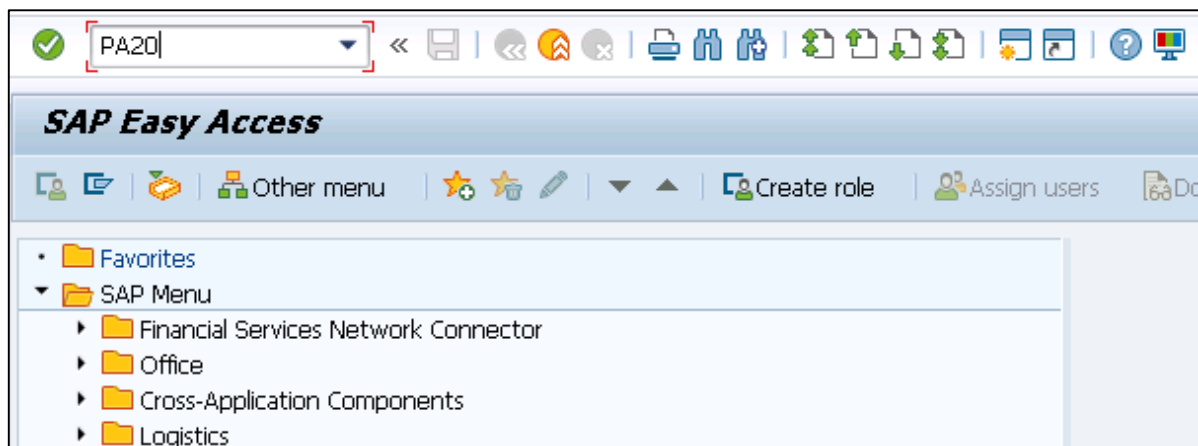
Additional actions

Start Date	Act.	Action Type
01.01.2002	K1	Hiring (KR)

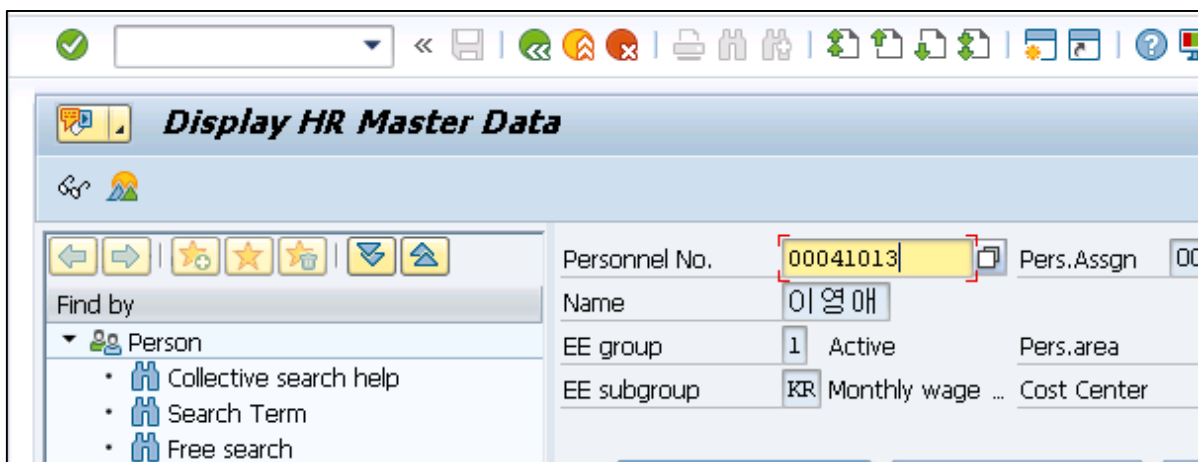
Display an Infotype

You can search an Infotype by its name or number.

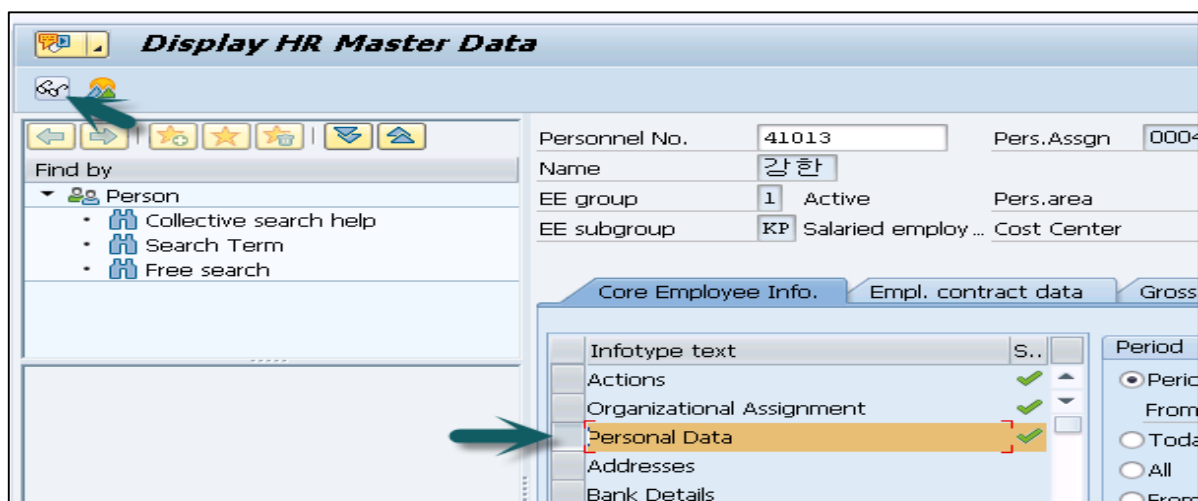
1. Search an Infotype using Personnel number and T-code: PA30 or PA20.



2. In the new window, enter the personnel number and press Enter.



3. Select the Infotype you want to display. Click F7 or the icon at the top.



4. In the new window, all the fields will be deactivated and you will see the details of the selected Infotype.

Display Personal Data

Find by: Person
 • Collective search help
 • Search Term
 • Free search

Pers. No. 41013 Pers. Assgn 00041013
 Pers. No. 41013 Age 45
 EE group 1 Active Pers. area KP01 Korea
 EE subgroup KP Salaried employee Cost Center 1000 Corporate Services
 Start 01.01.1970 to 31.12.9999 Chgd 22.02.2012 ANDERSON

Name
 Last name First name
 Hangul 강 한
 Hanja
 English
 Initials Nickname
 Name 강한 Name Format 00
 Title Second title

Basic Information
 Reg. No. 700101-1311111 Title
 Birth date 01.01.1970 Gender ☒ Male ☐ Female
 Birthplace Language KO Korean
 Ctry o. birth Mar. Status Since
 Nationality KR Korean Religion
 2nd nat.

5. Similarly, you can copy or change an existing Infotype using T-code: PA30.

Maintain HR Master Data

Find by: Person
 • Collective search help
 • Search Term
 • Free search

Personnel No. 260091 Pers. Assgn 0026
 Name Miss ÇÒÊ'ò ;ÃİŞ-İŞ
 EE group 1 Active Pers. area
 EE subgroup T1 Exec. Monthly Cost Center

Core Employee Info. Empl. contract data Gross

Infotype text S.. Period

Delete an Infotype

To delete an Infotype, follow the steps given below.

1. To delete an Infotype, use the same T-code: PA30.
2. Enter the Personnel number and select the Infotype you want to delete.

Maintain HR Master Data

Personnel No. 260091 Pers. Assgn 0026

Name Miss ÇÒÊ¹Ò ;ÄİS·İS

EE group 1 Active Pers. area

EE subgroup T1 Exec. Monthly Cost Center

Core Employee Info. Empl. contract data Gross

Infotype text S..

Actions

Organizational Assignment

Personal Data

Addresses

Bank Details

Period

From

To

All

From

3. In the next window, you will see a summary of data that will be deleted. Click Delete.

Delete Personal Data

Pers. No. 260091 Pers. Assgn 002

Pers. No. 260091 Name Mis

EE group 1 Active Pers. area 440

EE subgroup T1 Exec. Monthly Cost Center 260

Start 01.12.1973 To 31.12.9999 Chn

Name

Title Miss Title

First name ÇÒÊ¹Ò Last n

Initials Nickn

Name prefix N.pre

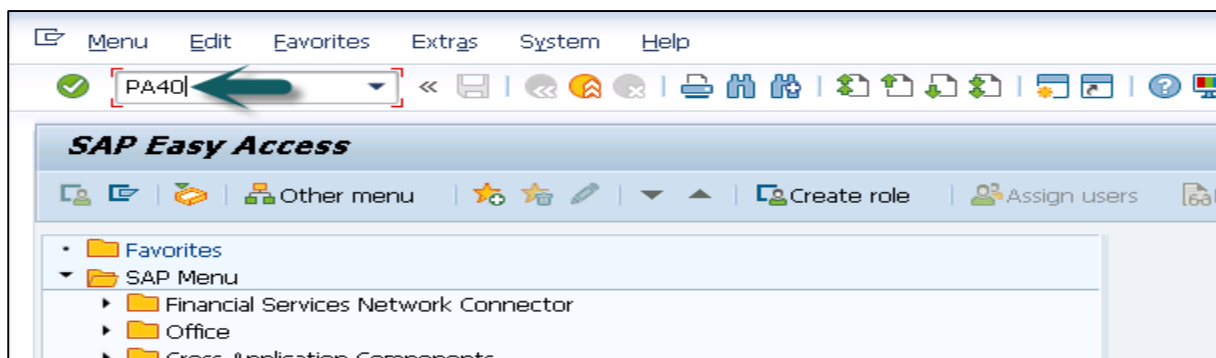
Second title Other

8. SAP HR – Personnel Actions

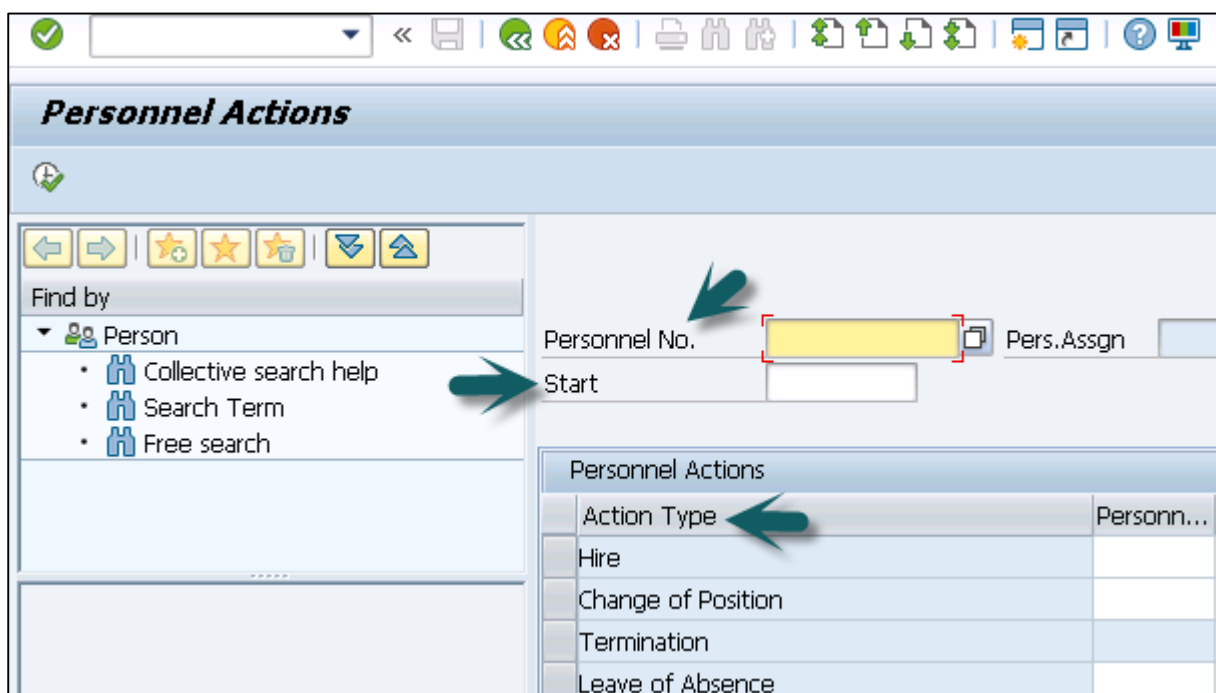
In SAP HR system, personnel actions are performed for all the Infotypes that require the data to be entered in HR system. Some common Infotypes that require a personnel action are hiring a new employee, termination of an employee, etc.

To perform a Personnel action follow the steps given below-

1. Use T-Code: PA 40 or go to SPRO -> IMG -> Personnel Management -> Personnel Administration -> Customizing Procedures -> Actions.



2. A new window 'Personnel Actions' opens.



The screen consists of the following fields-

- **Personnel No:** This field has an employee's personnel number. When a new employee is hired, this is generated automatically by the system.
- **Start:** This field presents the start date of the personnel action.

- **Action Type:** In this field, you have to select the action type that needs to be performed.

Example

Let us understand how a new employee is hired in a SAP HR system.

1. Enter the hiring date as shown in the image given below. Under the Action type, select Hire. Click the Execute option at the top.

Personnel Actions

Find by

- Person
 - Collective search help
 - Search Term
 - Free search

Personnel No. Pers.Assgn

Start

Personnel Actions

Action Type	Personn...
Hire	
Change of Position	
Termination	
Leave of Absence	

2. In the new window, enter the details like Reason for action, Personnel area, Employee group and sub group, etc. and click the Save icon at the top.

183.82.97.76:44789 - Remote Desktop Connection

HR master data Goto System Help

Hire

Person ID

Personnel Number

Start to

Personal Data

Title

Last name

First name

Birth date

Hiring

Action Type

Reason f.Action

RefPersNo.

Organizational Assignment

Position

Personnel area

Personnel subarea

EE group

EE subgroup

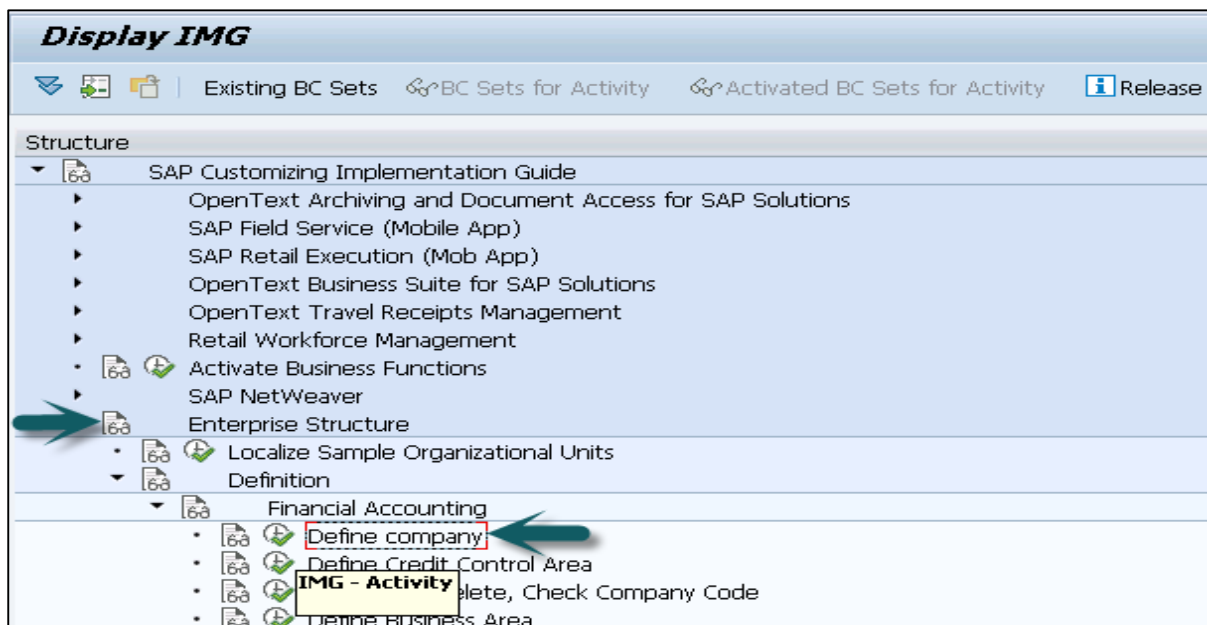
Building Enterprise Structure

The components that define a company's enterprise structure for Personnel administration are-

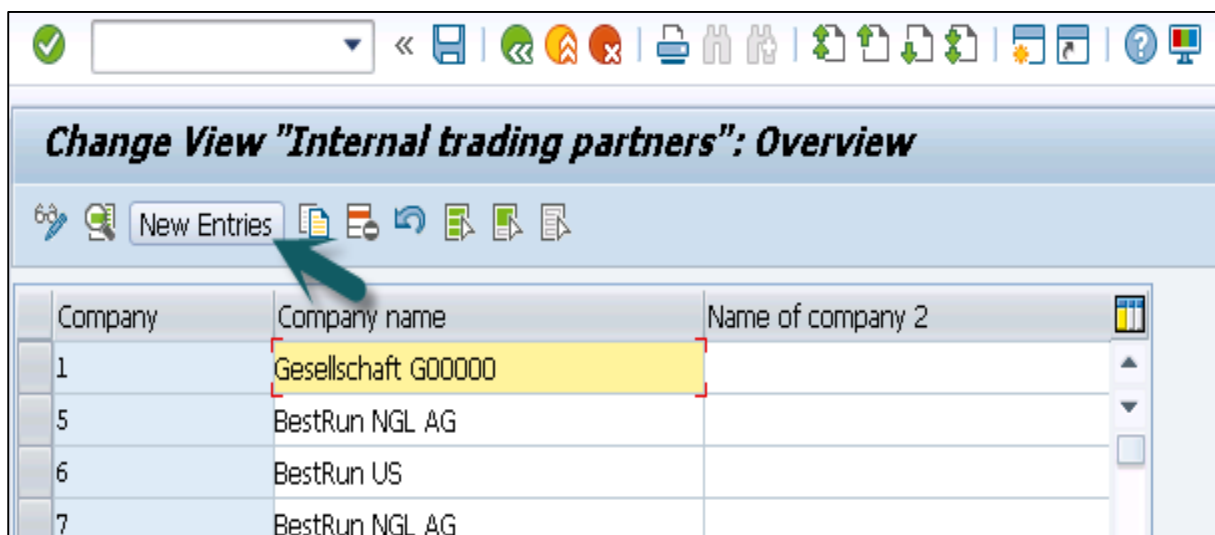
- Defining Company code
- Defining Personnel area
- Defining Personnel Subarea

To create a company follow the steps given below-

1. Go to SPRO -> IMG -> Enterprise Structure -> Definition -> Financial Accounting -> Define Company



2. In the new window, Click New Entries.



3. Enter the details like Company, Company Name, Address as shown below-

New Entries: Details of Added Entries

Company: XYZ

Company name: XYZ Pvt Ltd

Name of company 2:

Detailed information

Street: Akbar

PO Box: 1

Postal code: 1100069

City: New Delhi

Country:

Language Key:

Currency:

4. Click the Save icon at the top.

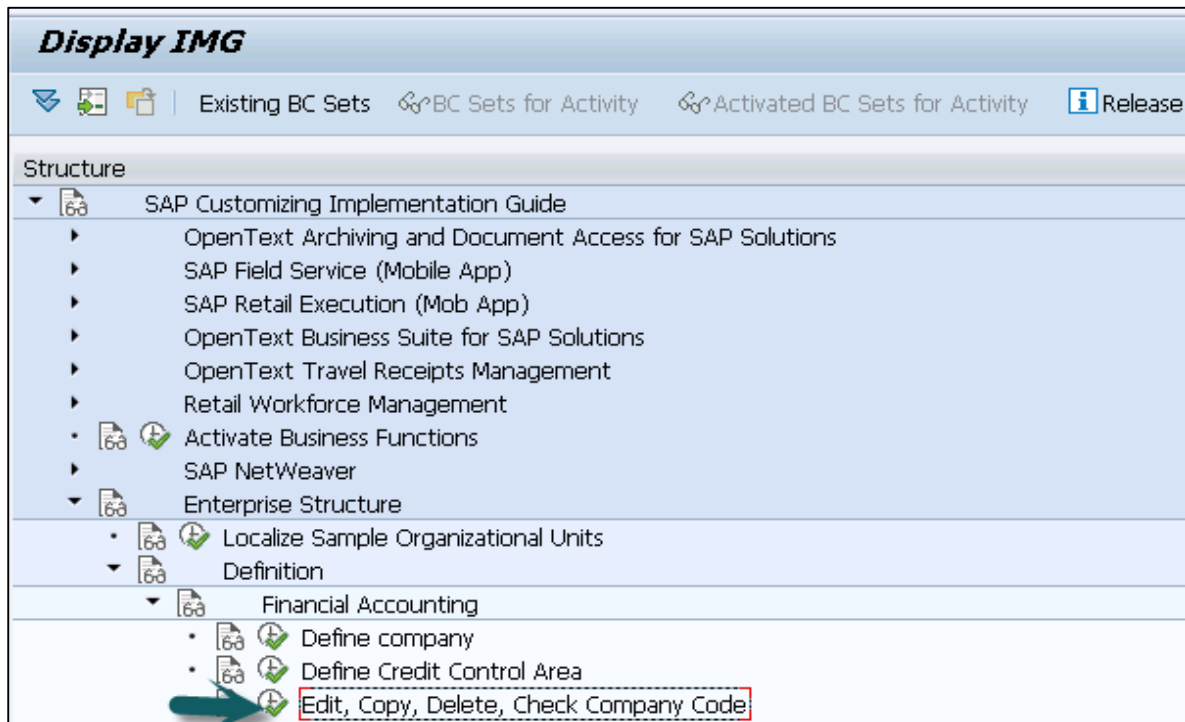
Display View "Internal trading partners": Overview

Company	Company name	Name of company 2
\$00004	Scherenz Spain	
\$00005	Scherenz Great Britain	
\$00006	Scherenz Australia	
\$00007	Scherenz Great Britain Oxford	
\$00008	Scherenz USA Michigan	
\$00009	Scherenz USA Dallas	
\$300	BestRun Services	
SGA	Andrews Rollup Company	
SGB	Bradford Rollup Company	
SGH	Headquarter Rollup Company	
SWIN	SWINDON LIMITED	
USE000	Subgroup USE Rollup Company	European Holdings
USN000	Subgroup USN Rollup Company	North American Holdings
USP000	Subgroup USP Rollup Company	Parent Company
XYZ	XYZ Pvt Ltd	
ZA01	BestRun South Africa	

Editing Company Code Data

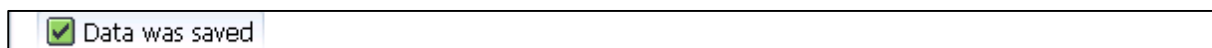
To edit company code Data-

1. Select Edit Company code data.



2. Click on New Entries.

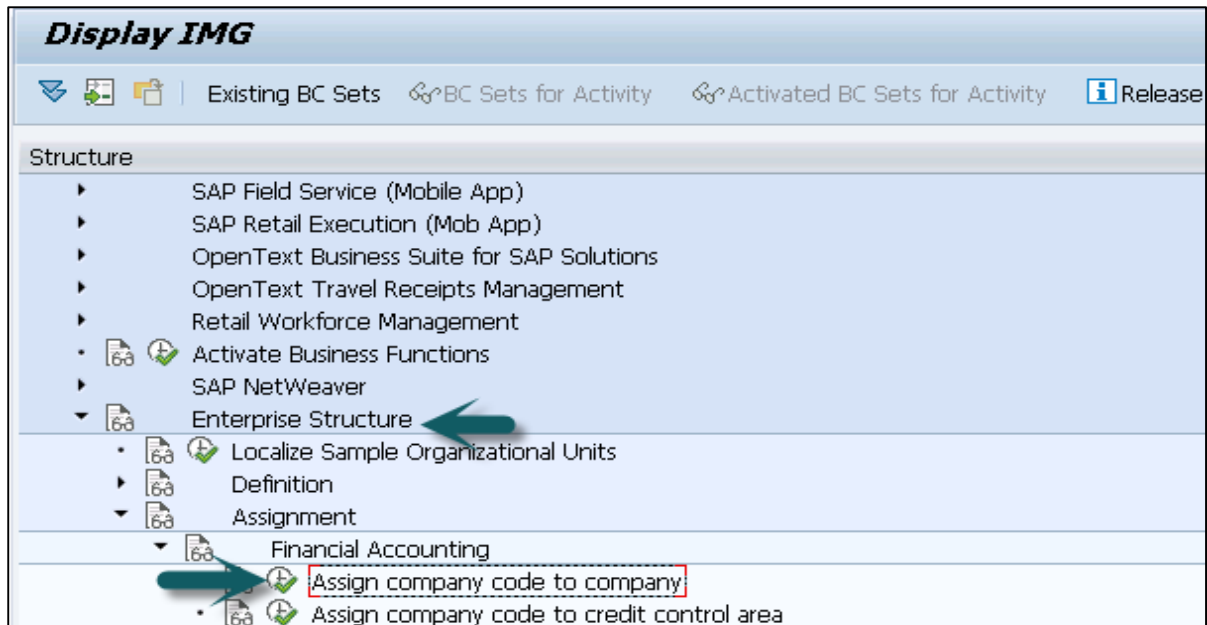
3. Click the save icon at the top.



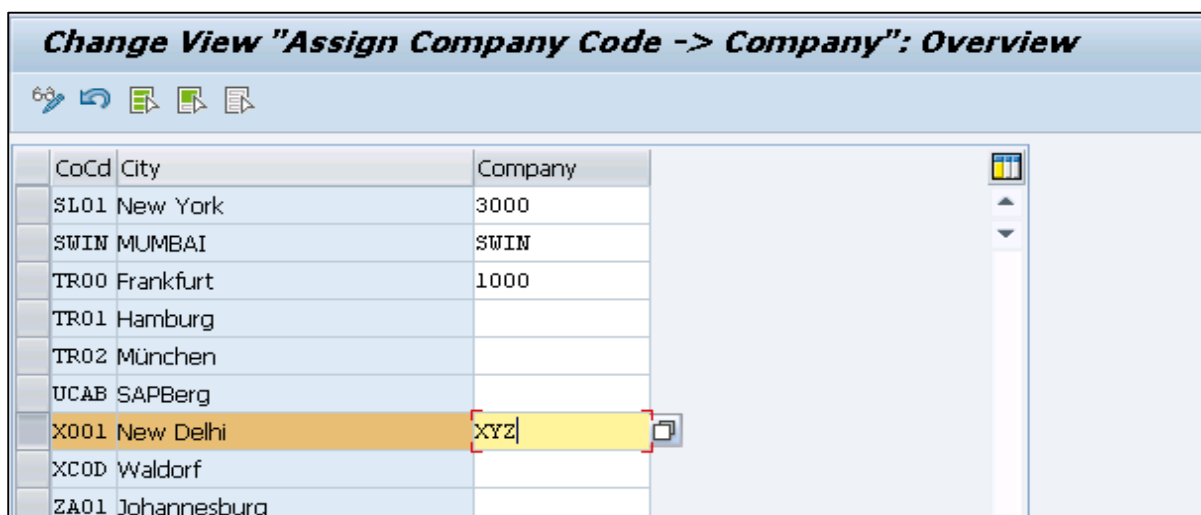
Assigning a Company Code

To assign a company code to a company follow the steps given below-

1. Go to SPRO -> IMG -> Enterprise Structure -> Assignment -> Finance Accounting -> Assign Company Code to Company -> Execute.



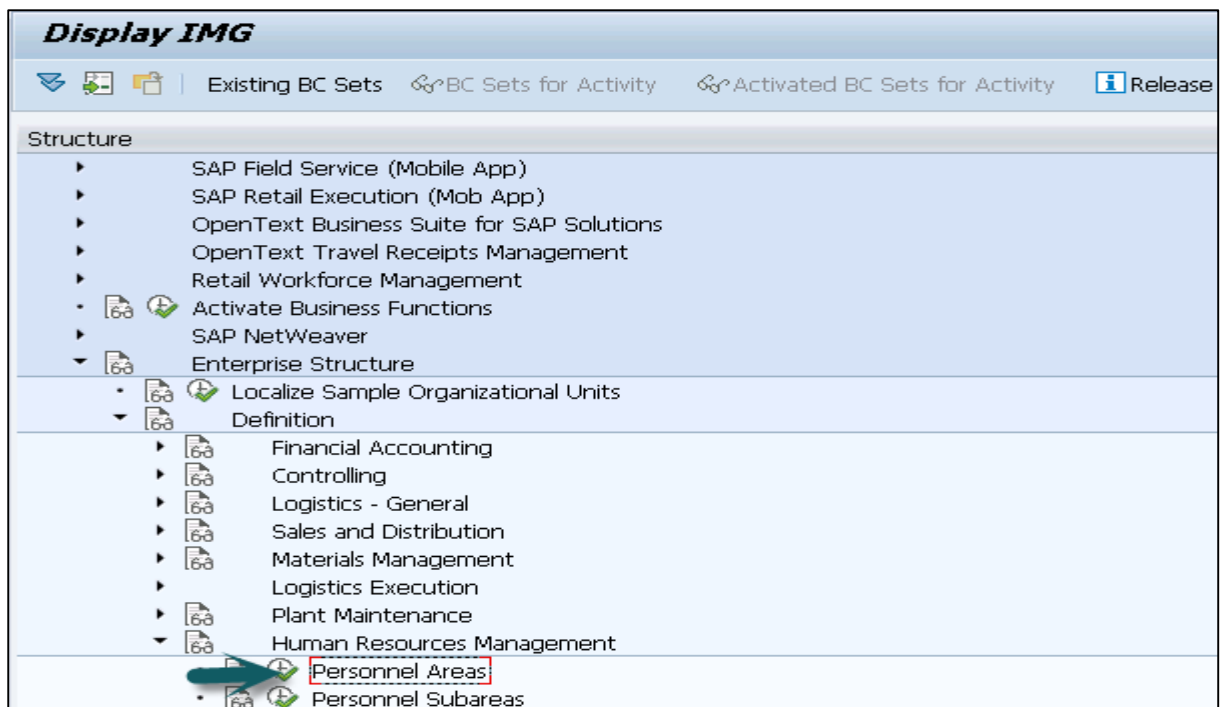
2. Change the company code in the new window.



Creating Personnel Areas

To create Personnel Areas follow the steps given below-

1. Go to SPRO -> IMG -> Enterprise Structure -> Definition -> Human Resource Management -> Personnel areas.



2. Go to New Entries and fill the details. Click the save icon at the top.

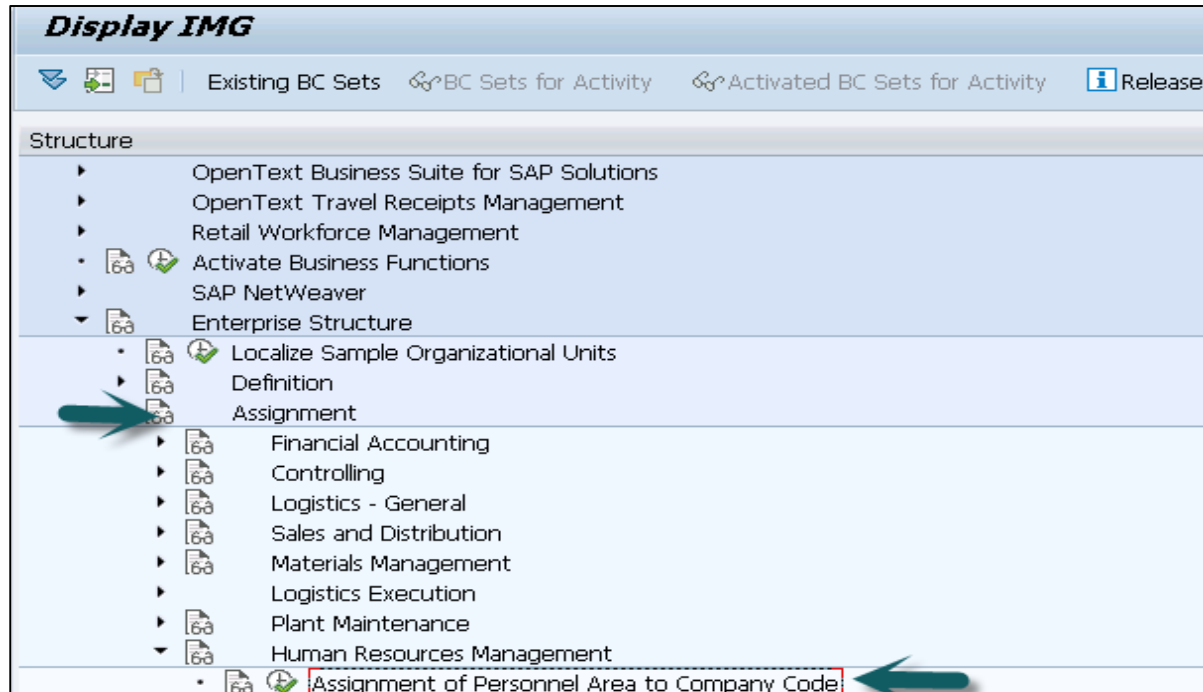
3. Personnel areas are created.

Personnel area	Personnel Area Text	
TW01	Taiwan	Taiwan
UA01	Ukraine	Ukraine
UCAB	New York	SAPCOE New York
XYZ	XYZ, New Delhi	
ZA01	Board	South Africa

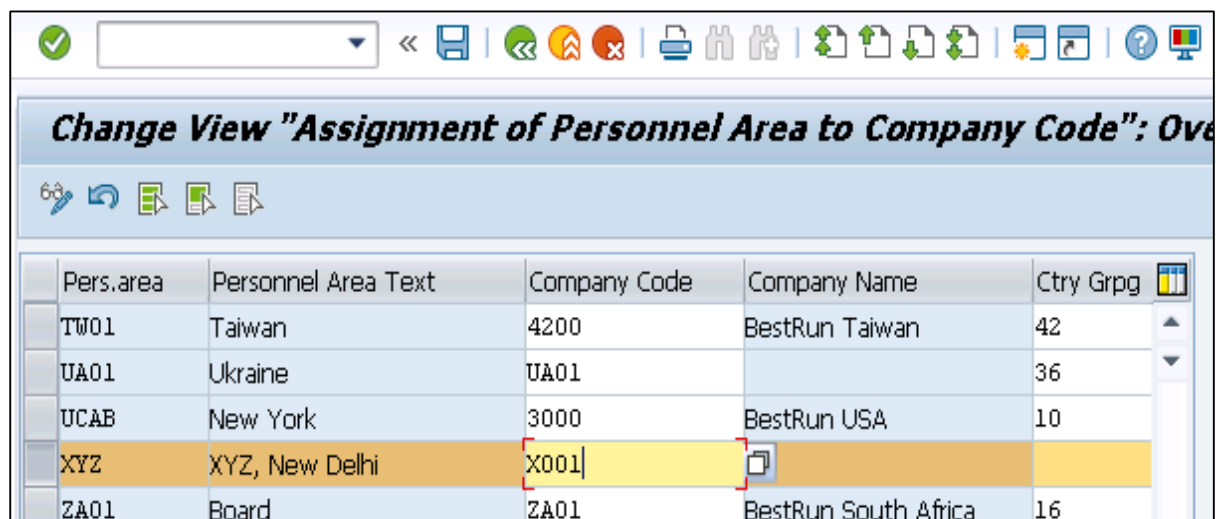
Assigning Personnel Area to Company Code

To assign Personnel Area to Company Code follow the steps given below.

1. Go to Assignment - > Human Resource Management - > Assignment of Personnel Area to company code.



2. Enter the company code for Personnel area as created earlier.



9. SAP HR – Changing Infotypes

As SAP provides various Infotypes that are grouped together for different information groups. Sometimes you need to modify the standard Infotypes as per business requirement.

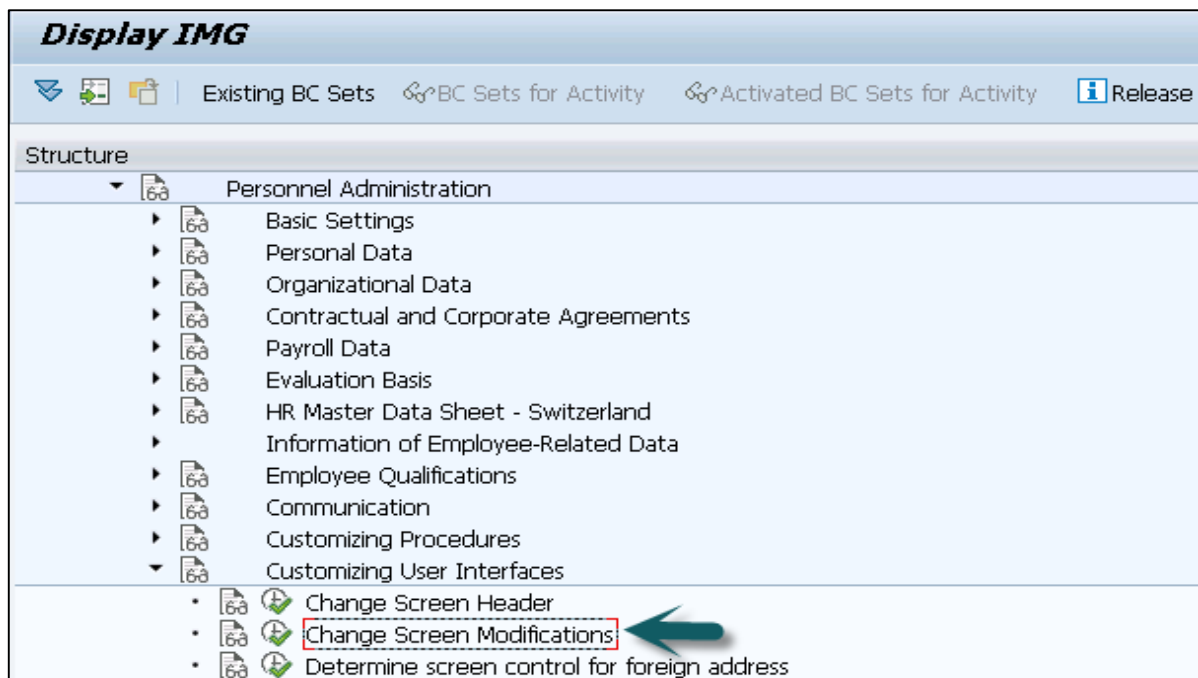
Customization of Infotypes can be done by hiding standard Infotypes fields as per business requirement or you can also add custom Infotype fields in the structure.

Following are the fields that can be used to configure the Infotype screen:

Field	Field Name	Field Length
Subtype	SUBTY	Up to 4 characters
Company code	BUKRS	4 characters
Screen number	DYNNR	4 characters
Payroll area	ABKRS	2 characters
Employee group	PERSG	1 character
Country grouping	MOLGA	2 characters
Personnel area	WERKS	4 characters
Employee subgroup	PERSK	2 characters

These are fields, which are used to maintain the screen layout and are maintained using the T-code: PE04.

1. Go to SPRO -> IMG -> Personnel Management -> Personnel Administration -> Customizing User Interface -> Change Screen Modifications -> Execute.







2. In the next window, you will see all Infotype screen controls like Mod. Pool, Screen, Feature, Variable key, etc. To create a new control, click the tab New Entries.

Mod. Pool	Screen	Feature	Variable key	Alt. screen	Next screen
MP000000	2000			0	0
MP000100	2000	P0001		2000	0
MP000100	2000		05	2000	0
MP000100	2000		07	2007	0
MP000100	2000		09	2000	0
MP000100	2000		10	2010	0
MP000100	2000		13	2000	0

3. In the new window, enter the values as shown below and press the ENTER key.

New Entries: Details of Added Entries

68    

Module Pool	MP018600	Variable key	501
Standard screen	2000	Feature	P0186
Alternative screen	2000	Feature	
Next screen			

Scrn control

Grp	Field name	Field text	Std	RF	OF	Outp	Hide	Init

Important:

- Module Pool is MPxxxx00, xxxx represents Infotype no.
- Variable key is what is returned by your feature.
- Standard Screen will be always 2000.
- Feature will be Pxxxx, where xxxx is your Infotype no.

Once you press ENTER, it will show you all the fields of this Infotype. In screen control, you will see five radio buttons against each entry. These radio buttons include:

- **Std means Standard setting:** When you select this option, the field characteristics correspond to the standard setting.
- **RF means Required field:** Select this check box to define the screen field as a required field.
- **OF means Optional field:** Select this option to define the field as an optional field.
- **Outp means not ready for input:** This can be selected to mark the field. It is an output field only and is not used for input.
- **Hide means hiding a field:** This option is selected to hide the screen field.
- **Init means hide and Initialize:** If this option is selected, the screen field is hidden.

New Entries: Details of Added Entries

Module Pool **MP018600** Variable key **501**
 Standard screen **2000** Feature **P0186**
 Alternative screen **2000** **Feature**
 Next screen

Scrn control

Grp	Field name	Field text	Std	RF	OF	Outp	Hide	Init
001	P0186-SIGRP	Institution of soc. provident fu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
003	P0186-CPFID	Fund type	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
004	P0186-FWTYP	Types of foreign workers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
005	P0186-CPFAC	CPF account number	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
006	P0186-FWSGR	Subgroup of foreign workers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
007	P0186-VCLMT	Switch for Monthly Voluntary Con	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
007	P0186-AWADJ	CPF adjustments for CPF contribu						
007	P0186-AWADJ	CPF adjustments for CPF contribu						
009	P0186-RTCPF	Type of PR/NRIC Rate- Graduated/	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
009	P0186-SGPRD	Date of being granted permanent						
009	P0186-FWLPR	Permanent resident (PR)						
010	TEXT01		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
011	TEXT02		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
013	P0186-EEPER	Fixed rate for the CPF voluntary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
014	P0186-EYPER	Fixed rate for the CPF voluntary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
016	P0186-EEPC	In excess of the statutory rate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4. To save this setting click the Save icon at the top.

Save icon highlighted

New Entries: Details of Added Entries

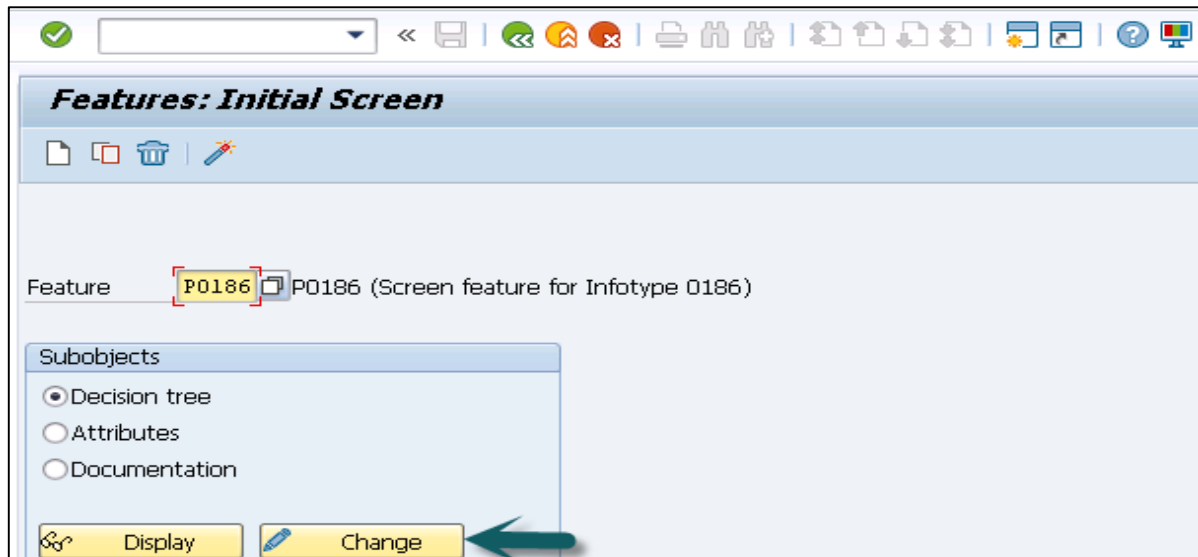
5. Click the Feature button; you can add values for subtypes.

Feature button highlighted

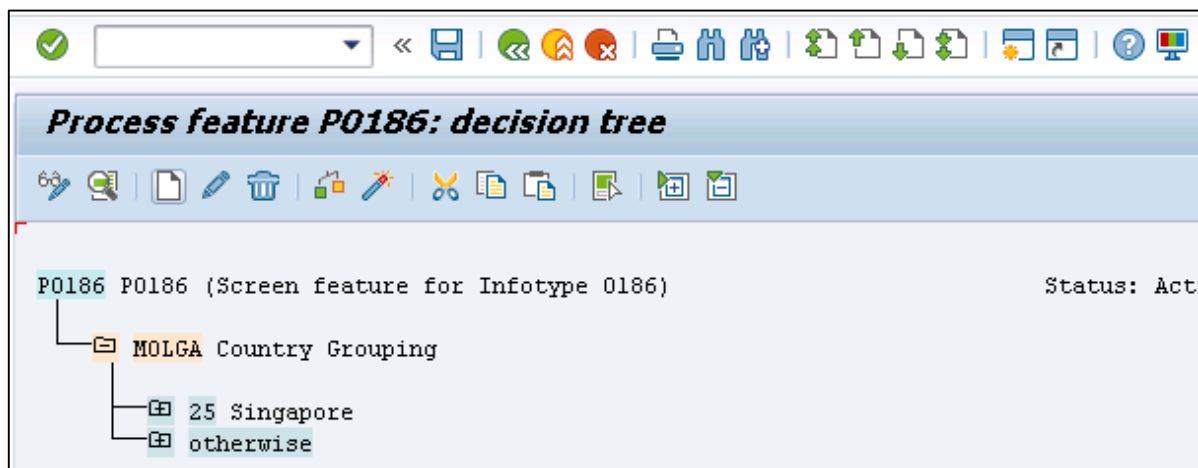
New Entries: Details of Added Entries

Module Pool **MP018600** Variable key **501**
 Standard screen **2000** Feature **P0186**
 Alternative screen **2000** **Feature**
 Next screen

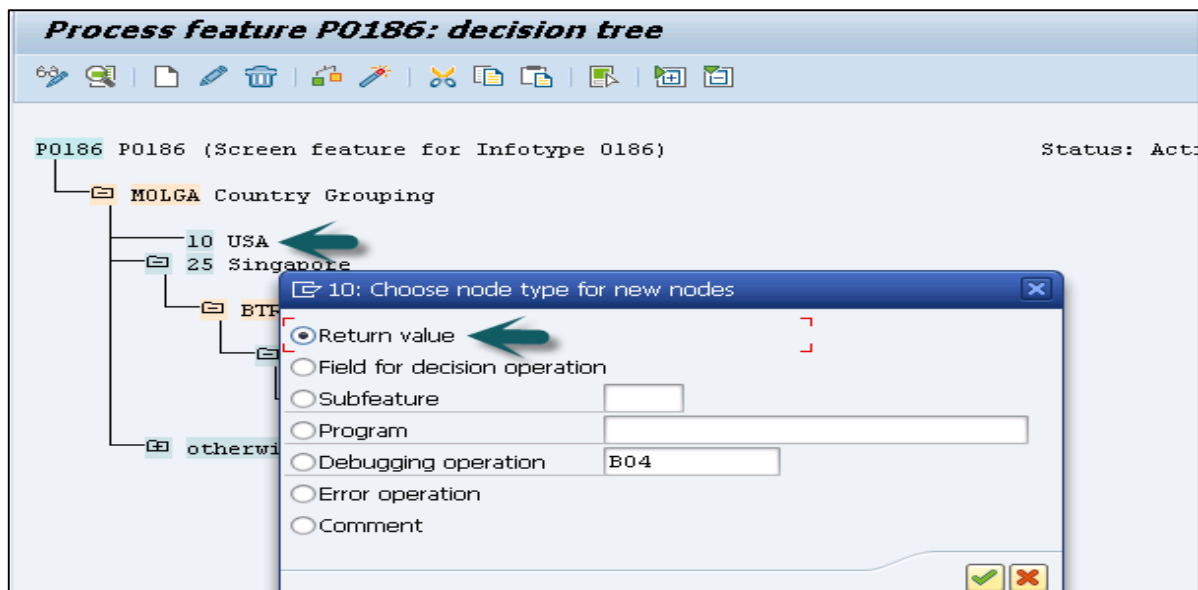
6. This will take you to the initial screen of Features. Click Change to change the values.



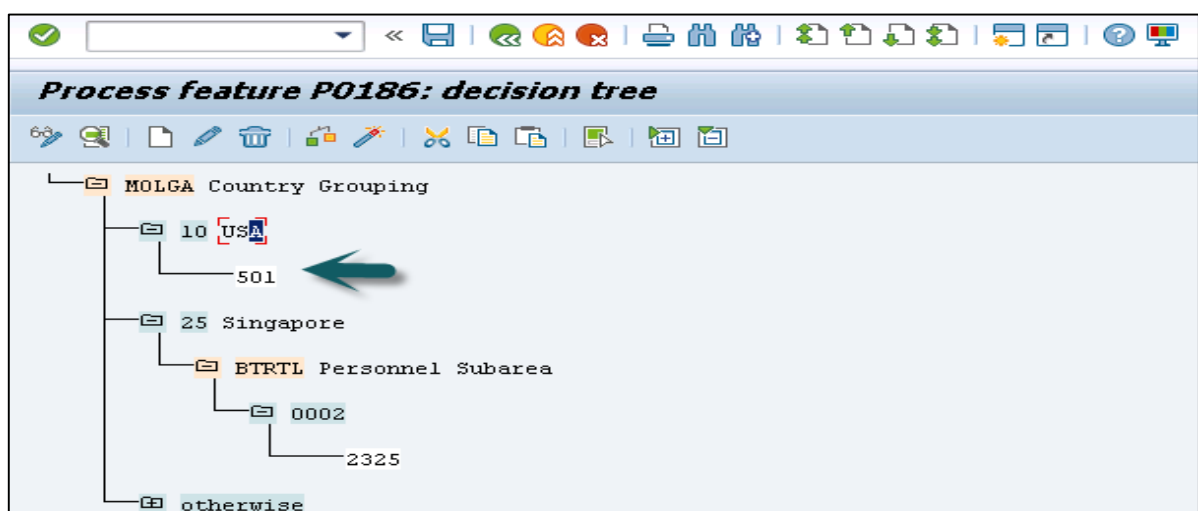
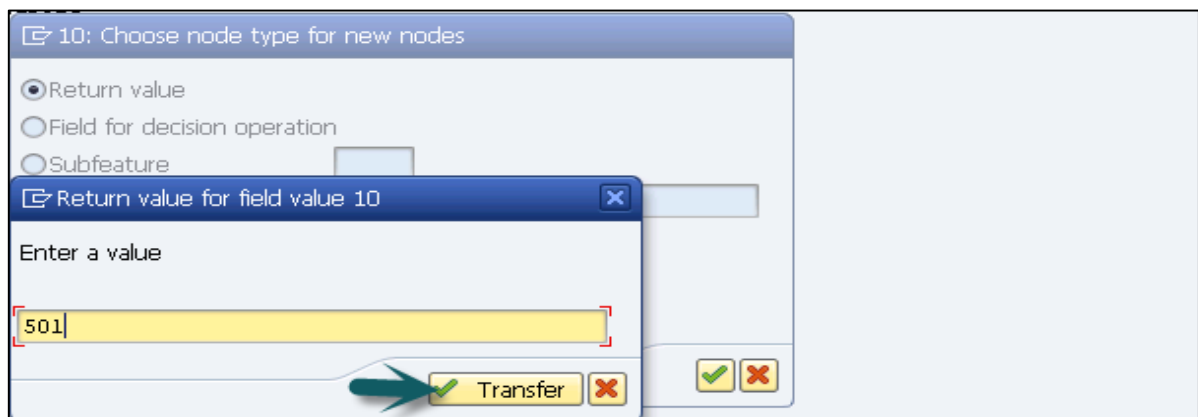
7. To create a new subtype node, click Create.



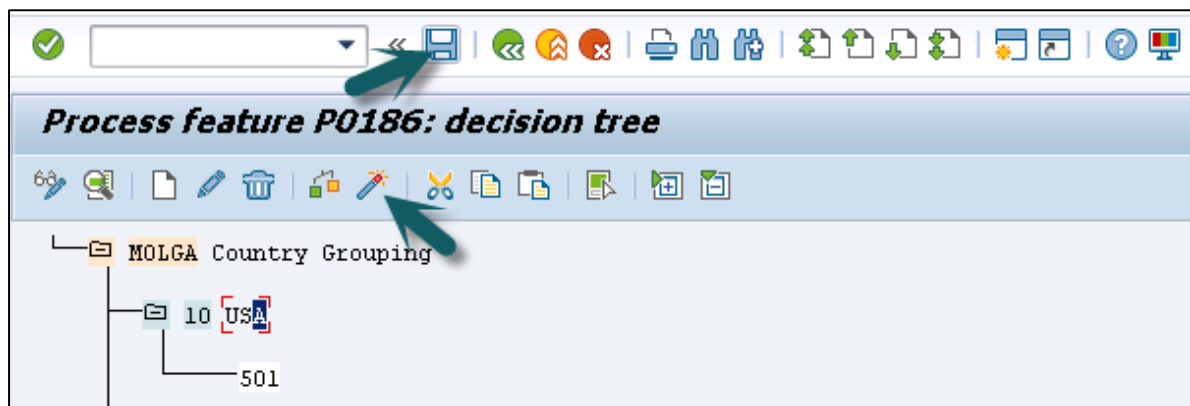
8. Select the subtype and click Create. Select the Return Value and press ENTER.



9. Enter the Return value as Variable key -501 and click Transfer.



10. Click Save and press the activate icon at the top.



Integration with Time & Payroll

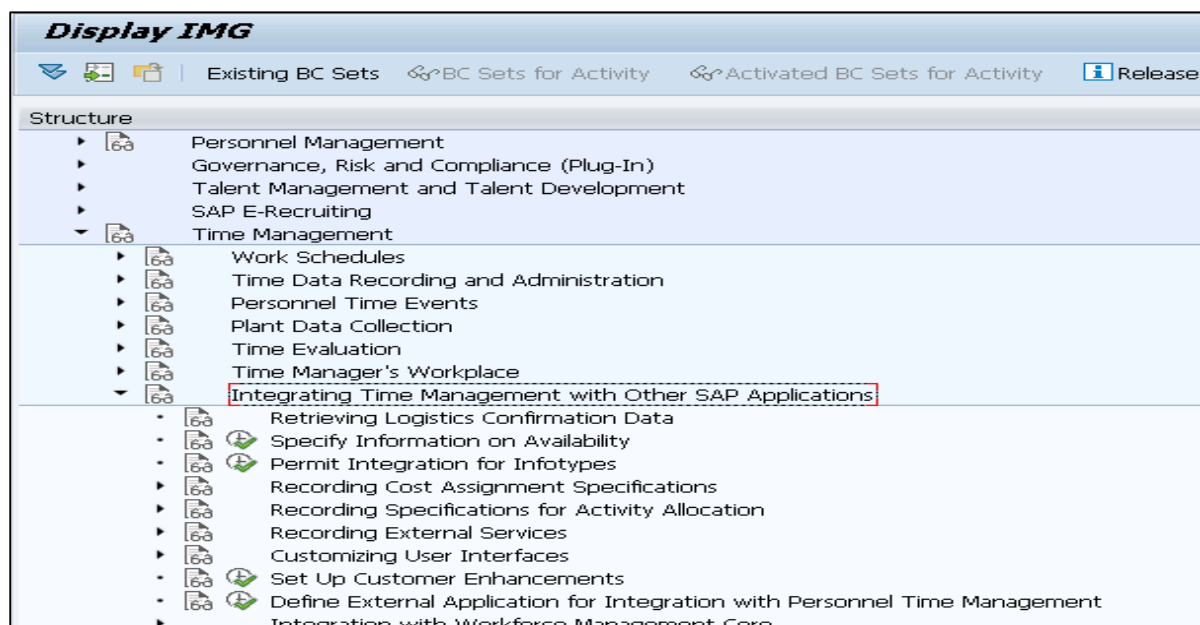
The integration between time management and payroll is performed through time evaluation. It allows you to determine the wages of an employee using time-wage types determined by time evaluation.

The time wage types in tables ZL, ALP, and C1 (Cluster B2) represent the interface between time evaluation(TM) and payroll.

- **ZL** – Contains wage types
- **C1** – Contains data for cost account assignment
- **ALP** – Contains the specifications on a different rate of payment

The integration of TM with other components can be found in the following IMG path.

SPRO -> IMG -> Time Management -> Integrating Time Management with other SAP Applications.



Time Management

10. SAP HR – Time Management

SAP time management is a module under SAP HR management, which is used by employees for time tracking and management across departments. Time management is one of the main components in any organization as it is necessary to maintain time along with the work performed. This helps an organization to calculate profit and loss, human costs, track time booking in a project, etc.

The key features of SAP Time management are-

- Monitors Human Costs as per time booking for a project
- Documents Progress of Process.
- Process of Invoices.
- Records External Employees' Services.
- Maintains Planning and Progress.
- Confirms Service Management Orders.
- Collects Data Plans and Sheets.

Advantages of Time Management

The main advantages or tasks that are performed under SAP Time management are as follows-

- Time Recording and Evaluation.
- Negative & Positive Time Recording.
- Work schedules & work schedules Rules.
- Public holiday Calendar, counting rules.
- Attendance Absences.
- Shift Management in HR.
- Overtime and Breaks Schedules under Time Management.

Time Recording and Evaluation

There are various types of time recordings that can be performed in Time management system i.e. number of hours worked in a project, leave and absence, holidays, business trips, etc.

You can book two types of absences in Time management-

- Quota driven absences: This absence type includes the leave taken from the allocated limit in a specific time period. Example: Casual Leaves, Earned Leaves.

- Non quota driven absences: This absence type includes all unplanned leaves and are not a part of allocated limit in a time frame. Example: Leave without pay, Study leave. Etc.

Various Infotypes are defined in SAP system for time recording:

Absences	2001
Attendance	2002
Overtime	2005
Absence – Quota Driven	2006
Attendance – Quota Driven	2007
Time Events	2011

Transaction Codes for Time Recording

Time Data Maintenance: PA61

Maintain Time Data

Personnel No. [] Pers. Assign. []

Find by: Person

- Collective search help
- Search Term
- Free search

Working times | Additional account assignments | Time quotas | Time manag...

Infotype text S..

- Absences
- Attendances
- Time Events
- Overtime
- Substitutions
- Availability
- Time Transfer Specifications
- Employee Remuneration Info
- Absence Quotas

Period

☒ Period

From [] To []

☐ Today ☐ Curr.week

☐ All ☐ Current month

☐ From curr.date ☐ Last week

☐ To Current Date ☐ Last month

☐ Current Period ☐ Current Year

Direct selection

Infotype [] STy []

Time Data Display: PA51

Display Time Data

Month Year

Find by

- Person
 - Collective search help
 - Search Term
 - Free search

Personnel No. Pers.Assgn

Working times Additional account assignments Time quotas Time manag...

Infotype text S..

Absences

Attendances

Time Events

Overtime

Substitutions

Availability

Time Transfer Specifications

Employee Remuneration Info

Absence Quotas

Period

Period

From To

Today Curr.week

All Current month

From curr.date Last week

To Current Date Last month

Current Period Current Year

Choose

Direct selection

Infotype STy

Calendar Entry: PA64

Calendar Entry

List entry Week Month Year

Find by

- Person
 - Collective search help
 - Search Term
 - Free search

Personnel no.

Calendar entry E..

Period

Period

From To

Today Curr.week

All Current month

From curr.date Last week

To Current Date Last month

Current Period Current Year

Choose

To maintain the list entry of data: PA62

Time Evaluation

Time evaluation is used to record the attendance of an employee and to record his absence from work. Time recording is required to process the payroll. Time evaluation is run for specific employees and all the employees are not required to process time evaluation.

1. To run time evaluation, use T-code: PT60.

2. A new window will open, HR Time: Time Evaluation

Enter details like Personnel Number, Evaluation Schema and Evaluation up to.

HR TIME: Time Evaluation

Further selections Search helps

Selection

Personnel Number 00041012

Parameters for time evaluation

Evaluation schema TM00

Time statement variant SAP&TEDT

Layout for log

Forced recalculation as of

Evaluation up to 25.09.2015

Program options

☐ Display log

☐ Test run (no update)

3. Click Execution. Time will be evaluated and log is displayed.

Display Log Tree

Log: Time Evaluation

- General data
 - Successful personnel numbers
 - Personnel numbers with errors
 - Personnel numbers ended early
 - Personnel Numbers Rejected
 - Messages
- Statistics
 - Selected personnel numbers 1
 - Successful runs for 0
 - including with errors 0
 - Processing not completed for 1
 - Rejected 0
 - Total number of messages and error messages 0

Positive Time Recording

Positive Time recording plays an important role in the workflow. All the processes related to time are executed automatically in the background.

The key features are:

- In positive time recording, you can record two types of time:
 - With Clock time:** In this type of time recording, full time recording is captured.
 - Without Clock time:** It includes capturing only the number of works hours.
- Positive time recording is difficult to implement as you need to define each type of attendance.
- Positive time recording deals with daily attendance, absence and over time.

Negative Time Recording

Negative Time recording includes all the time related activities like posting of absence for wage deduction, attendance validation etc. are performed manually.

The key features are:

- It has less level of integration among the different components of time management.
- Negative time recording includes no clock times and assumes employee is working until absences are entered.
- Negative time recording reads deviation like absence, compoff, overtime, etc.

11. SAP HR – Work schedules

Various elements combine to form a complete work schedule. You can process work schedule elements that provide flexibility while you define and set the time relevant data as per business requirements. With work time elements, you can react to the changes in internal and external work time provisions, with less expenditure on time and cost.

You just need to make the changes to the applicable elements as per new time provision and it allows you to make the changes in work time in the work time schedule automatically.

Let us learn about the Work Schedule elements.

Daily Work Schedules

This contains the work and break times in a particular day. It is the smallest unit of work schedule.

Work time model: It consists of a combination of the working and non-working days. Example – Mon - Friday are working days and Sat-Sun are non-working days. This work time model can repeat itself for a certain period of time.

You can generate work schedules by applying work schedule rule to a calendar. Working times for an employee group and for individual employees are defined as per work schedules.

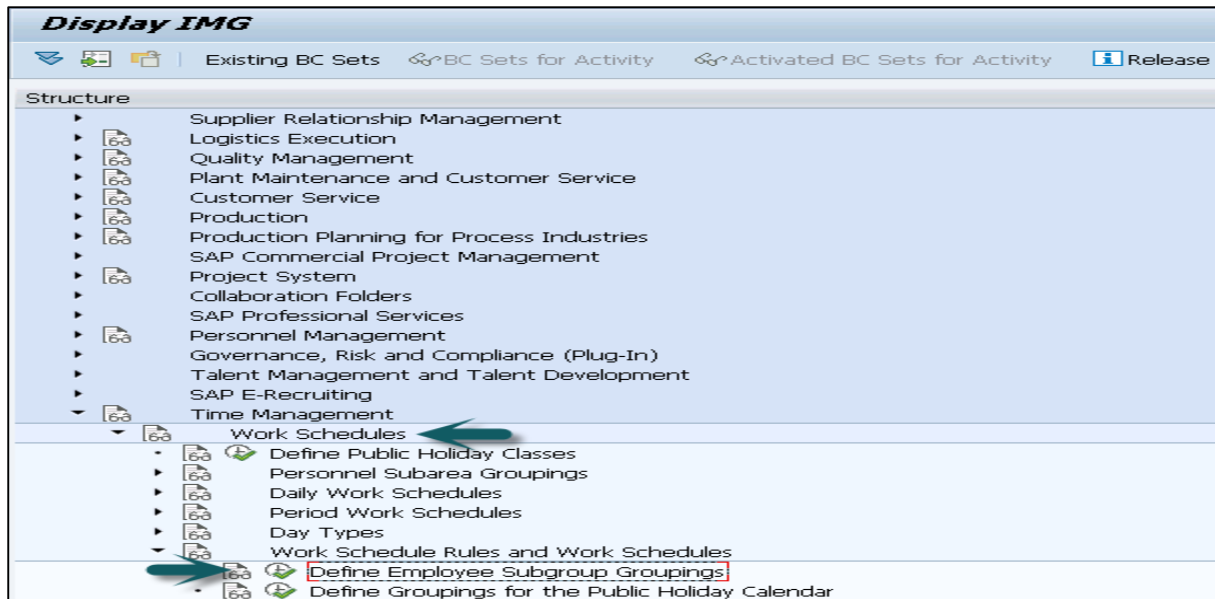
A period work schedule is assigned to an employee in a work schedule rule. Personal work schedule is also defined for each employee while including individual time data in work schedule for several employees in Infotypes 2001 Absences, 2002 Attendances, etc.

Work Schedule Rules

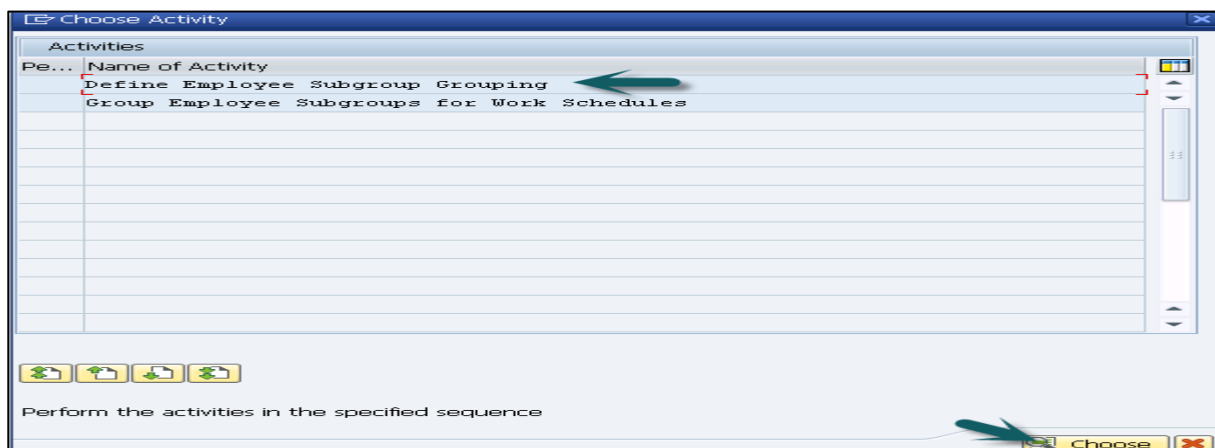
Work Schedule rules are used to define the period when work schedule is to be used and the day of the period when work schedule is to be generated. Common work schedule rules are early or late shift timing, flexible working time and flextime.

To define employee subgroup groupings-

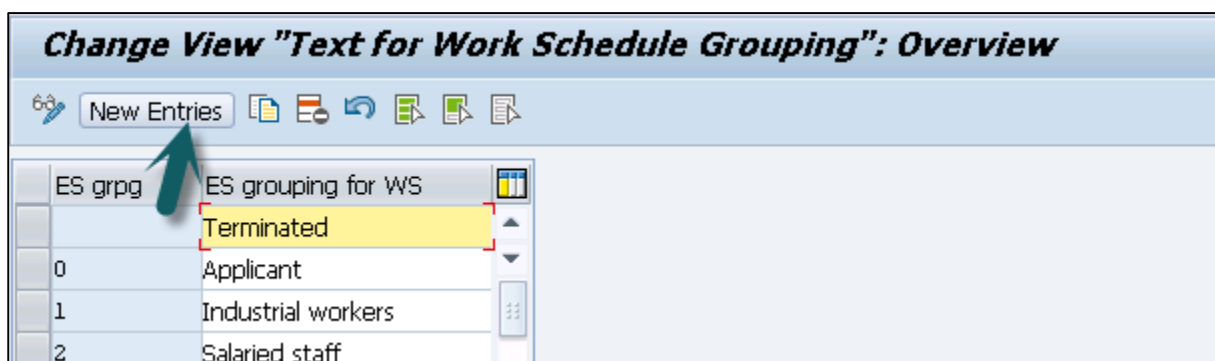
1. Go to SPRO -> IMG -> Time Management -> Work Schedules -> Work Schedule rule and work schedules -> Define employee subgroup grouping



2. Select Define Employee subgroup grouping.



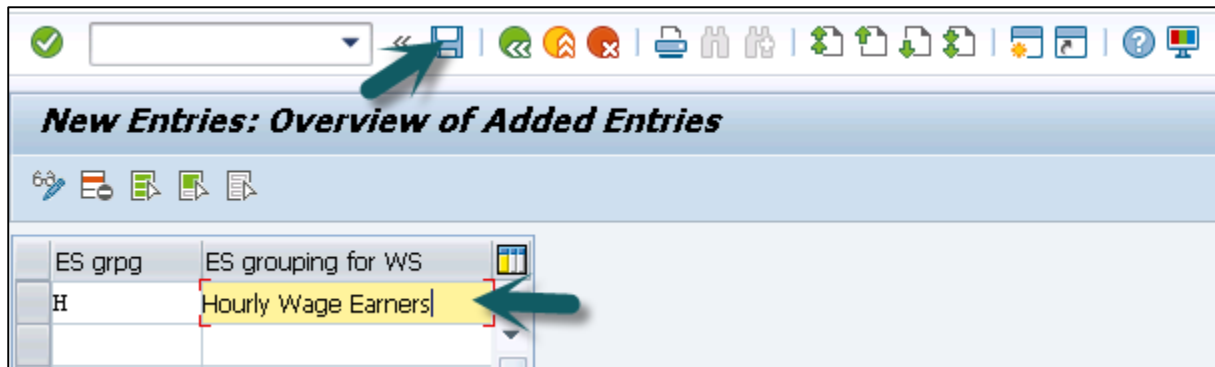
3. Click the New Entries tab.



4. Enter the fields as given below.

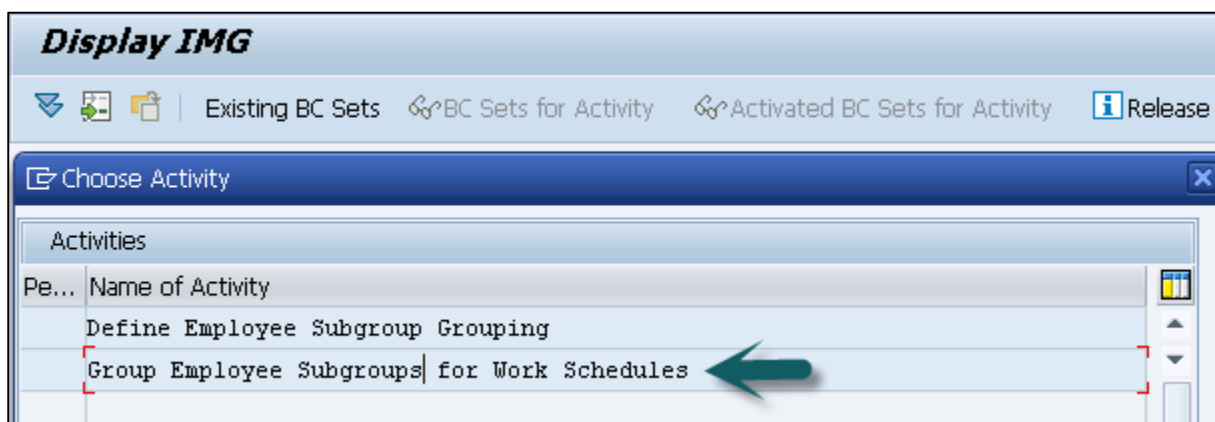
ES grpg: One digit key that identifies employee subgroup grouping.

ES group for WS: Update the text of the employee subgroup and click the save icon.

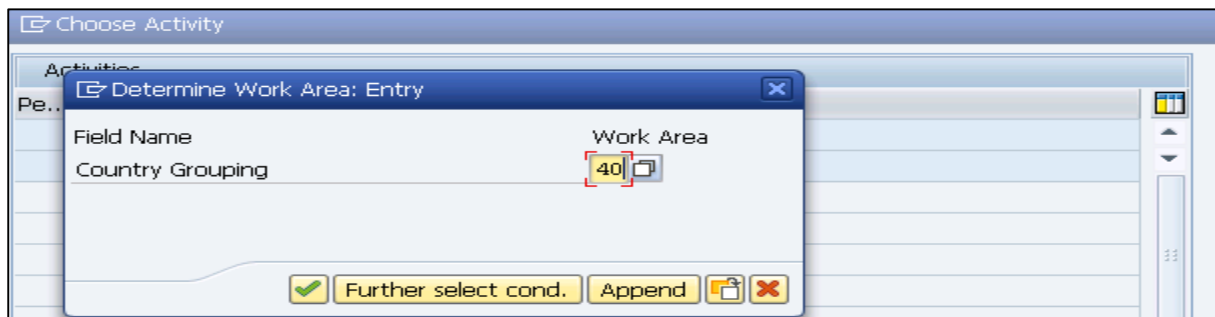


5. Go back to SPRO -> IMG -> Time Management -> Work Schedules -> Work Schedule rule and work schedules -> Define employee subgroup grouping.

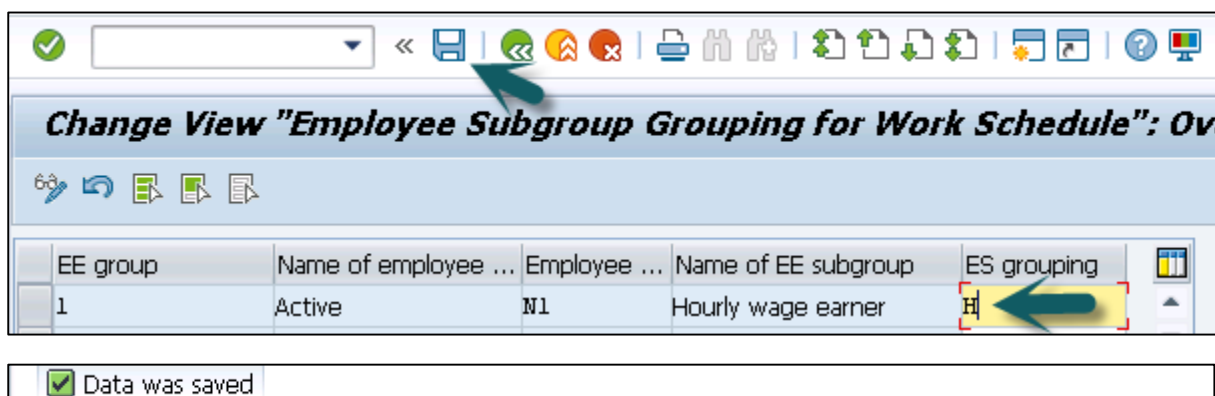
Select Group Employee subgroups for work schedules.



6. Enter country grouping key and press ENTER.



7. Enter ES grouping and click the Save icon at the top.

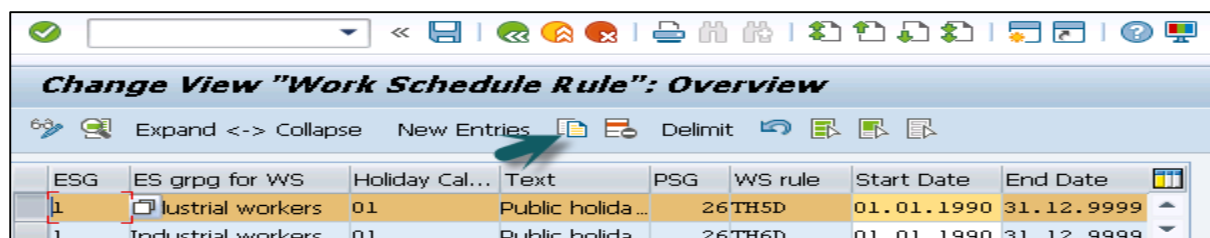


8. The next step is to set the work schedule rules and work schedules-

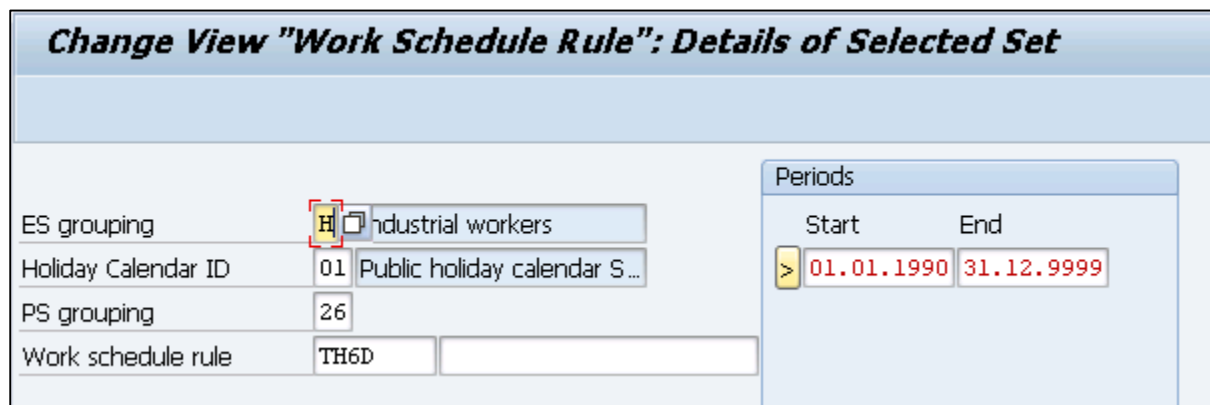
Go to SPRO -> IMG -> Time Management -> Work Schedules -> Work Schedule rules and work schedules -> Set Work schedule rules and work schedule



9. Select defined **work schedule rule** and click **Copy As-**

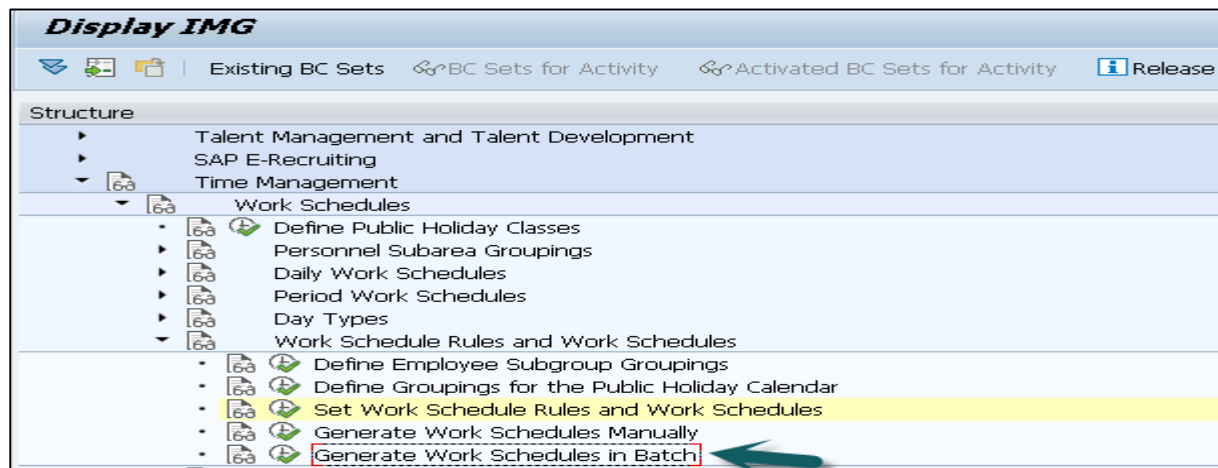


10. Enter the ES grouping key and other details as per your organization requirement. Click the Save icon to save the configuration.

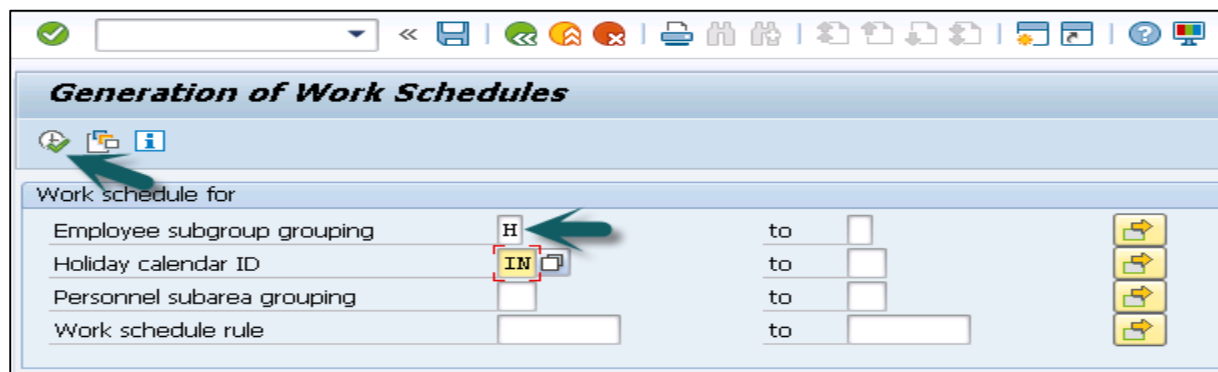


To generate work schedule in batch

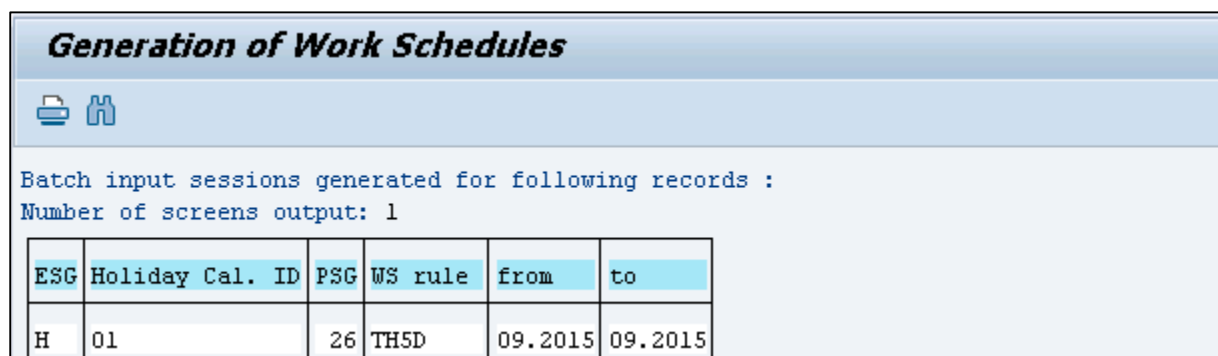
1. Go to SPRO -> IMG -> Time Management -> Work Schedules -> Work Schedule rule and work schedules -> work schedule in batch.



2. Enter ESG calendar and Holiday Calendar ID and click Execute.



Work schedule is generated.



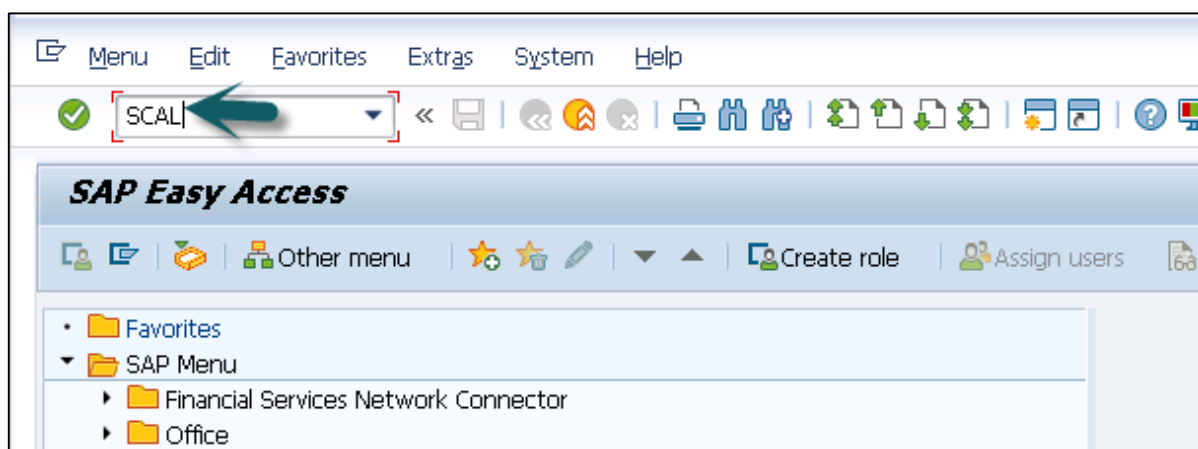
12. SAP HR – Public Holiday Calendar

Public Holiday Calendar contains a collection of public holidays, which are valid for a location - Personnel Area and Personnel Subarea. You can say that a company having office in Chennai and Hyderabad will have two different public holiday calendars.

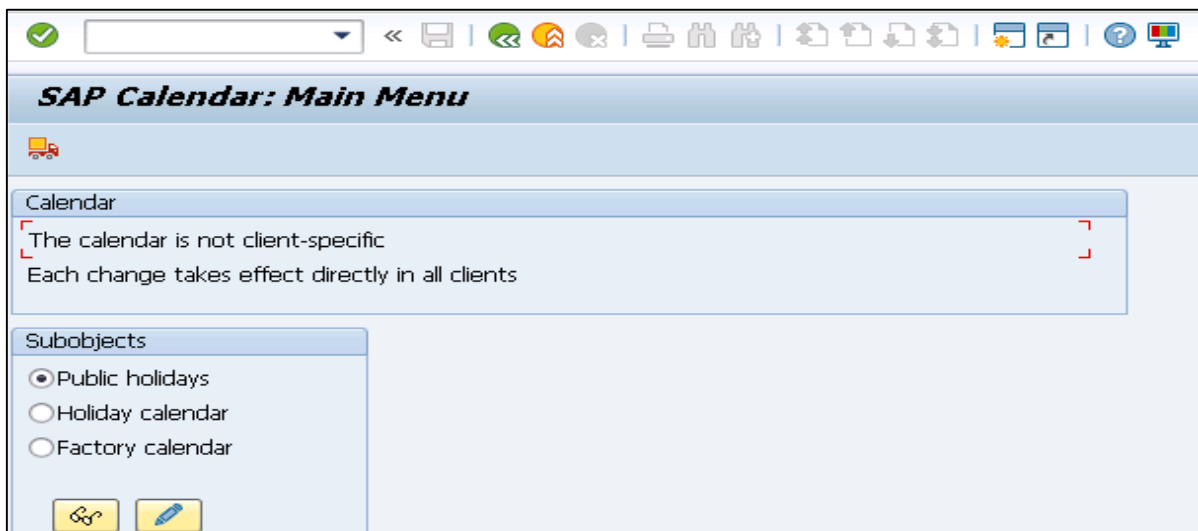
Therefore, it means that a public holiday's calendar that is valid for Chennai employees will not be applicable for Hyderabad employees.

Follow the steps given below-

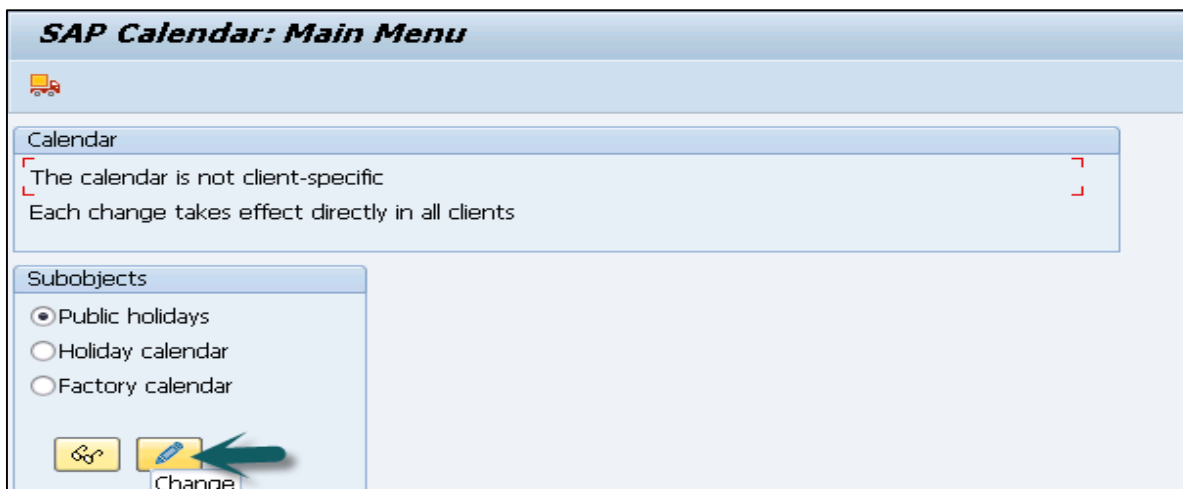
1. Transaction code to access Public Holiday Calendar: SCAL



2. When you execute this transaction code, you see the following screen-



3. We first create a list of public holidays for a country and then assign these holidays to different locations. For example, one holiday - Republic day is valid for both Chennai and Hyderabad. You have to create one public holiday and assign it to the public holiday calendar for both the locations.



You will see the screen as shown below-

Public holiday	Short text	Use in holiday cal.	Sort Key
Eid Al-Adha - 1 day befor	Adha -1	X	024
Eid Al-Adha - 2 day befor	Adha -2	X	024
Eid Al-Adha - 2 days after	Adha +2	X	024
Eid Al-Adha - 3 day befor	Adha -3	X	024
Eid Al-Adha - 3 days after	Adha +3	X	024
Eid Al-Adha - 4 day befor	Adha -4	X	024
Eid Al-Adha - 4 days after	Adha +4	X	024
Eid Al-Adha - 5 day befor	Adha -5	X	024
Eid Al-Adha - 5 days after	Adha +5	X	024
Eid Al-Adha Day	Adha holy	X	024
Eid Al-Fitr - 1 day after	Fitr +1	X	024
Eid Al-Fitr - 1 day befor	Fitr -1	X	024
Eid Al-Fitr - 2 days after	Fitr +2	X	024
Eid Al-Fitr - 2 days befor	Fitr -2	X	024
Eid Al-Fitr - 3 days after	Fitr +3	X	024
Eid Al-Fitr - 3 days befor	Fitr -3	X	024
Eid Al-Fitr - 4 days after	Fitr +4	X	024
Eid Al-Fitr - 4 days befor	Fitr -4	X	024
Eid Al-Fitr - 5 days befor	Fitr -5	X	024
Eid Al-Fitr - 6 days befor	Fitr -6	X	024

Description of various fields:

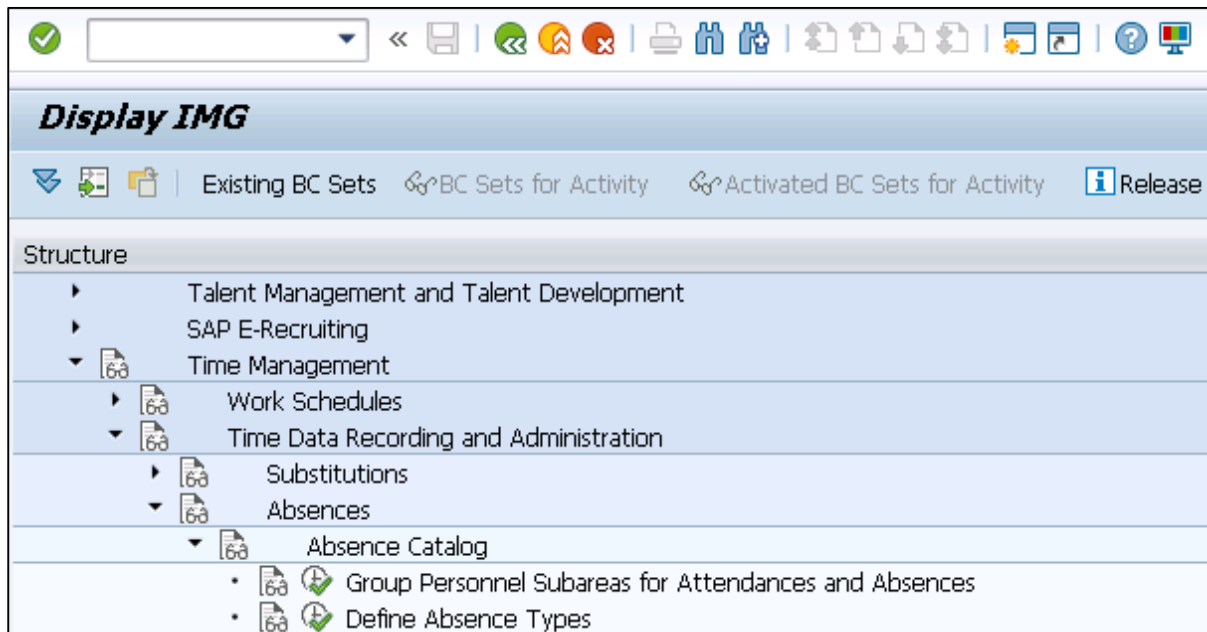
- **Public Holiday:** This field displays the long text of the Public Holiday.
- **Short Text:** This field displays the short text of the Public Holiday.
- **Use in Holiday Cal.:** This field helps us to check if a public holiday is being used in a public holiday calendar or not. It is not possible to edit a public holiday when it is being used in a public holiday calendar. To edit a calendar, you have to remove it from all the public holiday calendars where it is used and then make the necessary changes and again re-assign the public holiday to the relevant public holiday calendars.

- **Sort Key:** This field helps to group together all the public holidays valid for a country. Sort key is a three-character key. It is recommended that its naming convention should be in the "Znn" format, where "nn" defines the country grouping. For example, the sort keys for public holidays for Australia and India are Australia-Z13 and India-Z40 respectively.

13. SAP HR – Attendance Absences

SAP HR systems can maintain attendance and absence.

To maintain attendance and absence in SAP HR system, go to SPRO -> IMG -> Time Management -> Time data recording and administration -> Absence



- To view attendance quotas and absence quotas of your employee, you can use this query-

Query: 0HCM_PT_T01_Q0001

- With quota entitlement, this also includes compensated, deducted and unused quotas.
- To obtain details about an employee's attendances and absences, you can use query-

Query: 0HCM_PT_T01_Q0002

This query is called from manager self-service from attendance and absence quota overview query and the results display the information for the employee that you selected in a query.

Shift Management in HR

Shift management deals with accurately defining the number and the type of resources that are required to run the business operations.

Shift planning is one of the components of Personnel time management. Exchange of data between human resources and personnel management components ensures the data given below-

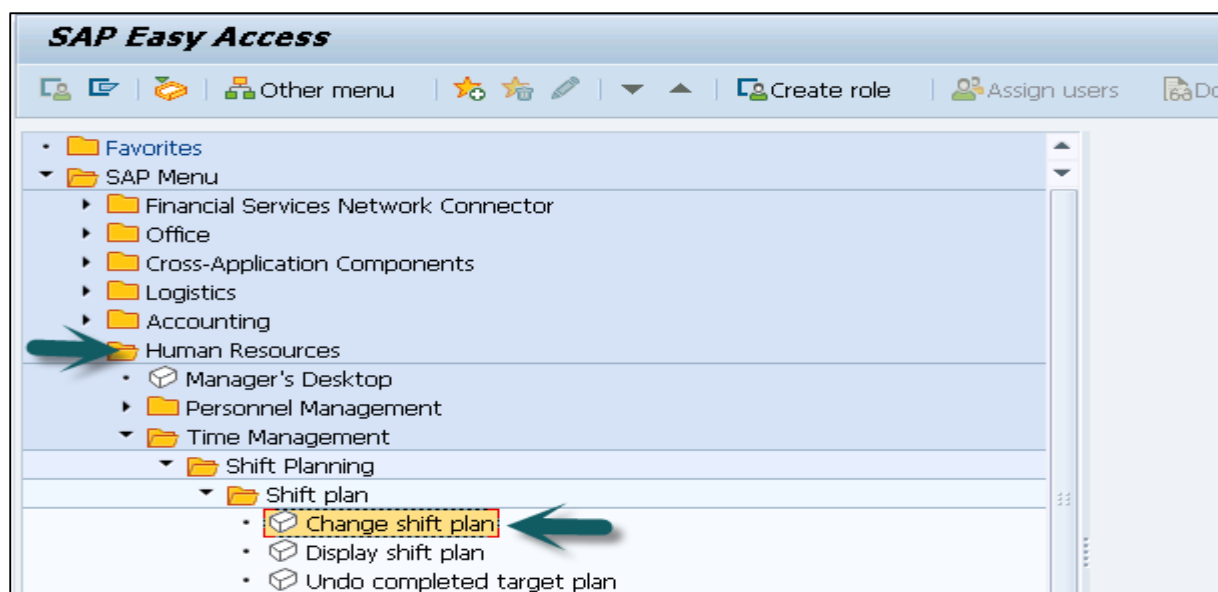
- Changes relevant to planning in time data recording
- Changes relevant to payroll in shift planning
- Changes relevant to planning in time evaluation
- Integration with HR components

Function Required	Component Required
Access to organizational structures	Organizational Management (PA)
Access to employee qualifications	Qualifications/Requirements (PA-PD-QR)
Determining an employee's working times	Time Data Recording and Administration (PT-RC)
Simulated evaluation of employee working hours during planning process	Time Evaluation (PT-EV)
Running the payroll for an employee	Payroll (PY)

Shift Planning Component

To start the shift planning component follow the steps given below-

1. Human Resource -> Time Management -> Shift Planning -> Change Shift Plan



2. Select the Shift Planning profile and Organizational Unit as shown in the screen shot given below and click Change.

Shift Plan: Entry Screen

Change Display

Organizational unit § 1B HR 2 1 Organizational unit

Human Resources

Shift plan status

☒ Target plan

☐ Actual plan

Planning Period

☒ Current Month From 01.09.2015 To 30.09.2015

☐ Previous Month From 01.08.2015 To 31.08.2015

☐ Subsequent period From 01.10.2015 To 31.10.2015

☐ Other period From 01.09.2015 To 31.10.2015

3. You can select the shift plan. In the Shift plan status field, select the ID of the desired shift plan (either target or actual plan).

In the Planning period section of the screen, select the time period for which you want to plan the shifts.

Change Shift Plans

There are two types of Shift plans namely, target and actual plans.

- You can use Shift plans to display the employees who are selected from the evaluation path of the entry profile and the entry objects.
- The calendar for the desired planning period can be checked and it can be used to view additional information like organizational unit, personnel number, etc. for a selected employee in a separate information column.
- Note that it is possible to change the target plans at any time till a target plan is complete. You can only edit the actual plan once you have completed the target plan. You can change actual plans at any time.
- To change a target plan if it is not completed, you need to set target plan complete or partially deleted.

Important T-codes for Time management

- PP61: Change Shift Planning
- PP63: Change Requirements
- PP62: Display Requirements
- PO17: Maintain Requirements Profile
- PP69: Choose Text for Organizational Unit

- PP6B: Attendance List
- PP6A: Personal Shift Plan
- PP72: Shift Planning
- PQ17: Actions for Requirement Profiles
- PP67: Create Requirements
- PP60: Display Shift Planning
- PP64: Choose Plan Version
- PP65: Edit Entry Object
- PP66: Shift Planning: Entry Profile

Overtime and Breaks Schedules

Overtime and Breaks Schedules come under positive and negative time recording. There are four types of break schedules-

- Fixed Break Schedule
- Variable Break Schedule
- Dynamic Break Schedule
- Overtime Break Schedule

Fixed Break Schedule

Fixed break schedule, the timings of the break for an employee is fixed. He is provided with certain time duration. At the same time, every day, say 30 min, 60 min and only in this time-frame, an employee has to take a break.

Example: Break timings are fixed, i.e. 1:30 PM to 2:30 PM and an employee has to take a break daily during this time interval.

Variable Break Schedule

In this break schedule, the timing of break is not fixed. Employee is provided with a time duration. The employee can take a break within this duration only.

Example: Break duration - 12:30 PM to 2:30 PM. An employee can take any one hour as break and if the break time exceeds the fixed break time, the salary is reduced.

Dynamic Break Schedule

In Dynamic break schedule, no certain time range is given and break can be taken after working for a certain number of hours.

Example: An Employee can take a break after working continuously for 4 hours from the start of the shift. In this case, if an employee's shift starts at 9:00 AM, he can take the break at 1:00 PM.

Overtime Break Schedule

In overtime break schedule, you define the break time, which is taken during over-time of the shift. This can be a fixed break schedule, which is taken during over-time.

Example:

- **09:00 AM to 05:00 PM:** Routine working Hours.
- **05:00 PM to 9:00 PM:** Overtime Hours.
- **7:30 PM to 08:00 PM:** Overtime Break.

Following are the T-Codes that can be used to manage work schedule-

- T- Code to Generate the Work Schedule PT01.
- T-Code to Change the Work Schedule PT02.
- T-Code to Display the Work Schedule PT03.

Benefits

14. SAP HR – Benefits

The Benefit section in SAP HR management allows you to use the benefit tools for custom benefits provided by an organization to its employees. Benefits play an important role in employee retention to keep the best possible employees in a company.

Benefits Management in SAP HR is integrated with the international Payroll component. However, integration is not supported for every country version of SAP Payroll.

To use Benefits Management for a country payroll, which is not integrated, in conjunction with non-SAP payroll software or an external payroll service, you must provide your own interface for the transfer of data.

Enrollment Overview

Enrollment is a process of enrolling employees of an organization under the benefit management. Enrollment Plan selection for an employee depends on employee eligibility.

The Enrollment function allows you to enroll the employees and to make changes to the employee benefit selection as required for the following tasks:

- u2022 – Enrollment of employees during an open enrollment period in plans for the coming Season.
- u2022 – Enrollment of new hires in plans that are automatically offered
- u2022 – Enrollment of new hires in default plans as an interim measure, until they have made their benefits choices
- u2022 – Adjustment of plan enrollments as a result of employee life or job changes

Types of Enrollment

Following are the types of enrollment that can be used-

Open Enrollment Offer

An open Enrollment offer is the most unrestricted type of offer.

Important features-

- Open enrollment type is generated by the system when you start enrollment for a date that lies within an open enrollment period.
- It includes only those enrollment plans, which require the employees to meet some certain criteria. This is defined in customizing the field in SAP HR system.
- Open Enrollment period is called the time period when an organization allows its employees to enroll in new benefits plans or change any existing enrollment plan.

- Enrollment plans, which are available for selection during the open enrollment start on some specific future date and normally at the start of the new financial year.
- The benefits offer set up for open enrollment is valid only during the open enrollment period.

Example

Consider an organization that allows an employee to select its benefits on an annual basis for the coming year. The open enrollment period is 1 Sep 2015 - 30 Sep 2015 and any new benefits that are elected by employees are valid from 1 Apr 2016 to 31 Mar 2017.

Default Enrollment Offer

A dynamic enrollment offer is called when employees can be enrolled before they communicate their benefits elections to the benefits office.

These default plans are commonly used for giving short-term coverage to new hires and therefore often allow little flexibility to the employee regarding the plan terms.

Automatic Enrollment Offer

Automatic enrollment plan is one in which the employees are enrolled without the requirement that they consent to the enrollment or make any elections within the plan. It allows an employee to enroll in all relevant automatic plans at all times.

Automatic Enrollment plans are normally provided to the employees at no extra cost and also allow little flexibility to the employee regarding the plan terms.

Adjusted Enrollment Offer

An organizational change or a personal change for an employee that allows an employee to change his/her current benefit elections.

The adjustment reason is normally a user-defined parameter to which certain adjustment permissions are assigned for different types of benefit plan.

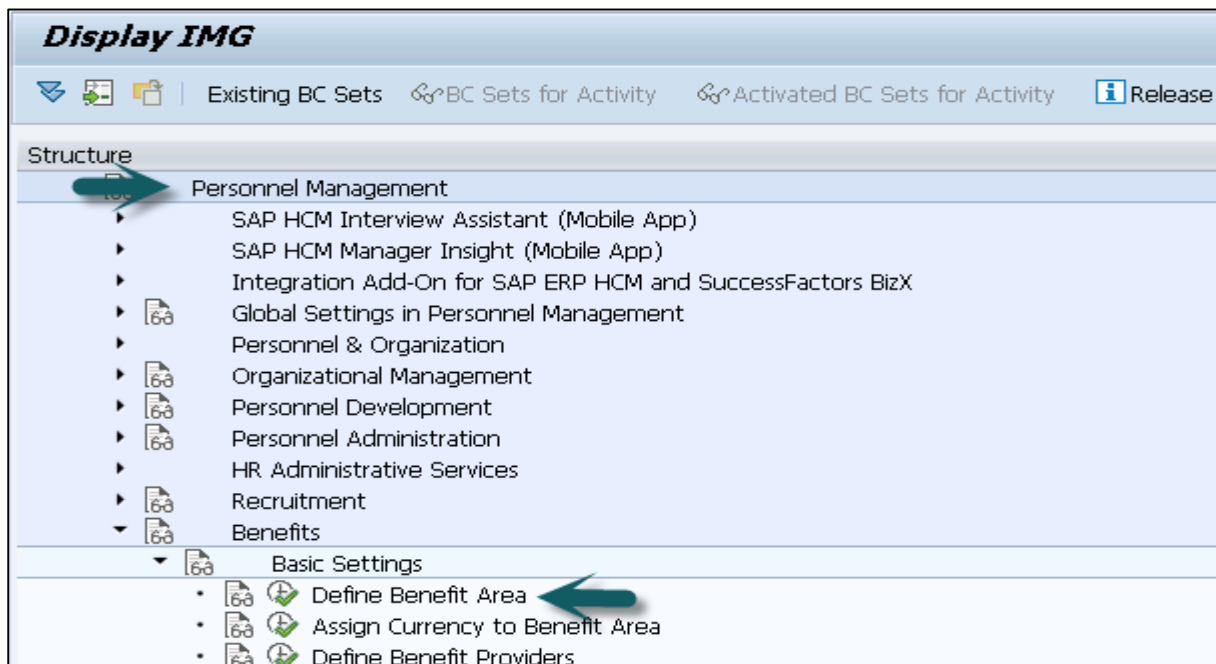
Some examples of adjustment reasons are Marriage, Hiring (initial enrollment), New dependent, Job change etc.

Benefit Area

Using Benefit areas, you can have separate administration of different benefit plan pools. The division is performed primarily for administrative purposes and would not normally be used for eligibility. This is a primary subdivision of plan set up within the benefits component.

Benefit areas in SAP HR are independent from each other. They are configured and function independently. Typically, employees will be enrolled in a benefit area that groups them according to common attributes such as country or organizational assignment.

1. To define benefit area, go to SPRO -> IMG -> Personnel Management -> Benefits -> Basics Settings -> Define Benefit Area -> Execute



- 01 Germany
- 02 Switzerland
- 03 Austria
- 04 Spain
- 05 The Netherlands
- 06 France
- 07 Canada
- 08 Great Britain
- 09 Denmark
- 10 USA
- 11 Ireland
- 12 Belgium
- 13 Australia
- 14 Malaysia
- 15 Italy
- 16 South Africa
- 17 Venezuela
- 18 Czech Republic
- 19 Portugal

- 20 Norway
- 21 Hungary
- 22 Japan

Change View "Benefit Area": Overview

New Entries

Benefit area	Country Grouping	Name of HR country grpg
07	07	India
10	10	USA
15	10	USA
20	10	USA
22	22	Japan
26	26	Thailand
37	37	Brazil
41	41	South Korea
98	99	Other Countries
99	99	Other Countries
G1	08	Great Britain
G2	08	Great Britain
MX	32	Mexico
ZA	25	Singapore
ZF	10	USA
ZJ	22	Japan
ZP	10	USA

Feature

2. To create a new Benefit area, click New Entries. Enter the fields - Benefit Area, Country Grouping, Name of HR country grpg.

Once you enter the details, click Save..

Save

New Entries: Overview of Added Entries

Benefit area	Country Grouping	Name of HR country grpg
	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Feature

Benefit Category

Benefit category defines the classification of benefit plans. Benefit category is always maintained in SAP HR system. Given below are the key benefit categories:

- Health Plans
- Insurance Plans
- Savings Plans
- Stock Purchase Plans
- Flexible Spending Accounts

- Credit Plans
- Miscellaneous Plans

In SAP HR system, all these categories are predefined and HR system handles each category differently. Benefit plan types are defined within each category to reflect your requirements.

Benefit Category is at the highest level in Benefit Plan structure. Benefit Categories are again divided into Plan types and every category can contain one or more Benefit Plan types.

Benefit Plan type

The grouping of different benefit plans is done in Benefit Plan type. You identify each benefit plan with a unique identifier - maximum four characters.

Following are common Benefit plan types:

- **MEDI:** stands for Medical plan and belongs to Health Plan Category
- **SAVE:** stands for Savings and belongs to Savings Plans Category
- **STPC:** stands for Stock purchase and belongs to stock Option Category
- **DCAR:** stands for dependent care spending and belongs to flexible spending Accts
- **LIFE:** stands for Life Insurance and belongs to Insurance Plans Category
- **CRED:** stands for flex credit and belongs to Credit Plans Category
- **CAR:** stands for Company car and belongs to Miscellaneous Plans Category

Benefit Plan types are used for enrollment and the system does not allow an employee to enroll in more than one benefit plan per plan type.

Benefit Plans

Benefit plan structure at the granularity level is defined by Benefit Plans. You can group multiple Benefit plans under a particular plan type. All the benefit Plans are identified with a unique identifier, which consists of maximum of four characters as mentioned above.

Example

MEDI, VISI, DENT represents health Plans Category for medical MEDI Plan Type.

Benefit plans within the health plan category cover the basic health needs of an employee. A typical health plan might provide an employee with medical, dental or vision coverage.

Similarly, you can have an Insurance plan, which is used to provide monetary amounts of coverage payable to the employees in an organization.

To setup account balance to meet spending needs, a spending account can be used that provides an employee with the opportunity to establish account balances. Most common needs that can be associated with spending account includes health, dependent care, and legal benefit, etc.

Example

Following are the common benefit plan types for each of the plan categories:

Health Plans

- General medical care
- Dental care
- Vision care plan

Insurance Plans

- Life insurance
- Dependent life insurance
- Supplemental life insurance

Savings Plans

- Retirement plan
- Savings plan

Stock Purchase Plans

- Own company stock plan
- Flexible Spending Accounts

Health care spending account

- Dependent care spending account

Credit Plans

- Cafeteria plan

Miscellaneous Plans

- Company car

Payroll

15. SAP HR – Payroll Management

Payroll is one of the key components in SAP HR module and is used to process payroll of employees in an organization.

Important features are as follows-

- Payroll can be integrated with Personnel administration, time management, wages and accounting.
- Data retention allows you to use master data and other payroll related data from Personnel Administration.
- Time data from Time Management is included in Payroll and is used during the payroll run.
- Incentive Wages component is used to process payroll directly.
- Expenses and payable information from SAP Payroll component is posted directly in Financial Accounting FICO to assign a cost center for all the costs.
- SAP Payroll system also calculates the gross pay and the net pay. It consists of payments for each employee and deductions made during a payroll period. All payments and deductions are included in the remuneration calculation using different wage types.

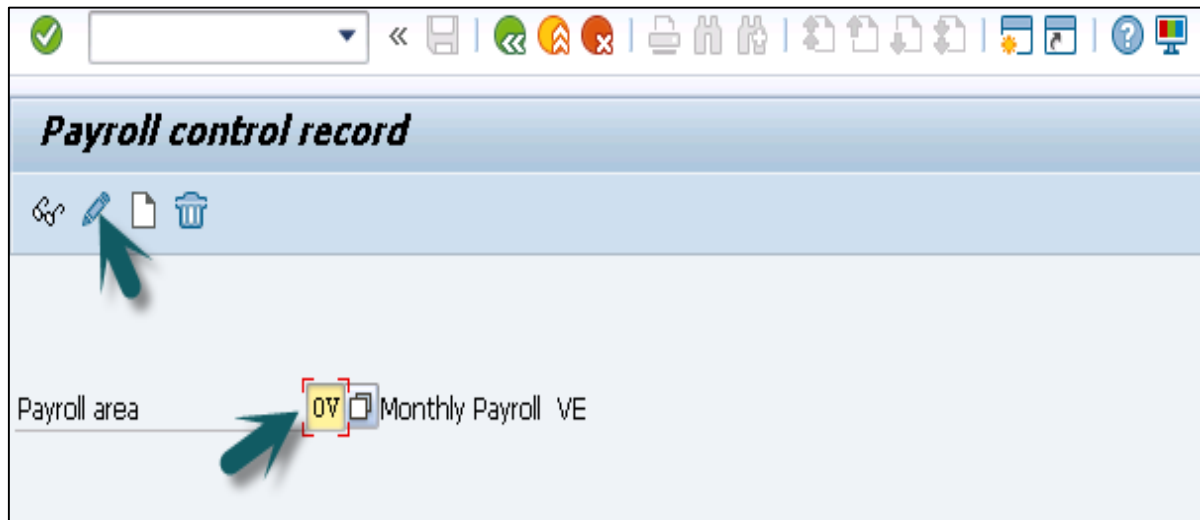
Payroll Control Record

Payroll control record is used to run the payroll process in HR system. Payroll Control record is used to lock the master data during the payroll run and thus lock the changes during payroll processing.

You have to set up Payroll control record manually for each part of payroll run.

Follow the steps to set up the Payroll control record.

1. Use the T-Code: PA03. Select the Payroll area and click the change icon.



2. A new window opens as depicted in the screenshot.

- **Payroll Status:** This determines the status of payroll run. It also defines the current payroll period and number of times a payroll has been run.
- **Earliest retro acctg period:** This indicates the greatest earliest payroll period for retroactive accounting.
- **Last change to personnel control record:** This shows the details of the person who has changed Payroll Control Record and what kind of changes are made.

Options in Payroll Control Record

Following options are available in payroll control record screen-

Incorrect Personnel Numbers: This is used to check the number of employees rejected in last payroll run.



List Personnel Numbers: This is used to get a list of employees included in the payroll area.



Locked Personnel Numbers: This is used to obtain a list of employees locked out of payroll in Infotype 0003 (Payroll Status in SAP HR, stopping the ability to execute a payroll run for them).



The Payroll control record is necessary for payroll run:

- **Release mode:** If you want to run payroll in update status, release mode should be used.
- **Corrections:** means data can be changed. Must subsequently move into release mode to update that data change
- **Check payroll results:** You can't change the data in this mode. It is used to run the reports related to payroll.
- **Exit mode:** When payroll run is completed, exit model is selected.

16. SAP HR – Basic Pay Infotypes

Basic pay information of an employee is stored in basic pay Infotype (0008). An employee's payroll history can be checked using Infotype history.

In case an employee leaves an organization, the basic payroll data for that employee remains in the system to ensure accuracy of any retroactive account runs to be performed. A basic pay Infotype 0008 can be processed itself with a personnel action. To create a new record you need to enter payment type on maintain HR master data screen.

The standard system contains the following payment types as subtypes:

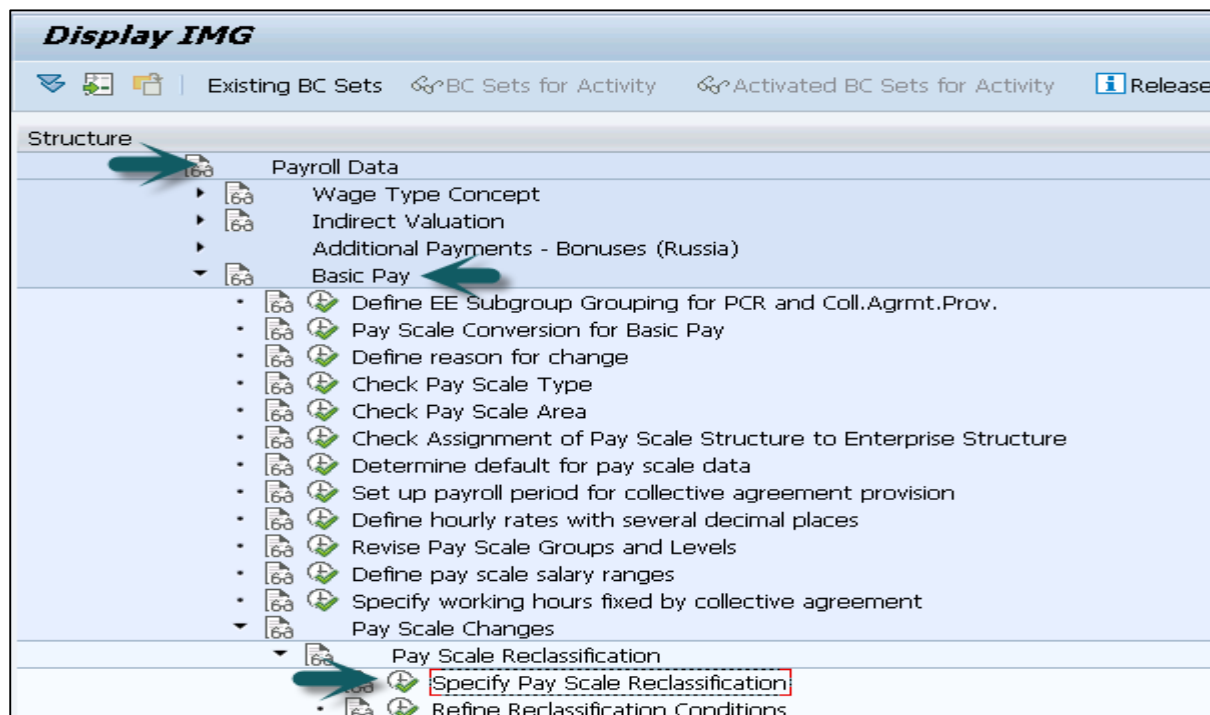
- Basic contract
- Increase basic contract
- Comparable domestic pay
- Refund of costs in foreign currency
- Local weighting allowance

Pay Scale Reclassification

A pay scale reclassification involves moving an employee to a new pay scale group and to a different pay scale level. In this case, an employee receives the remuneration for the new pay level assignment.

A pay scale reclassification is performed in a payroll period prior to running the payroll. The pay scale reclassification must always take place before the standard pay increase.

To perform pay scale reclassification, go to SPRO -> IMG -> Personnel Management -> Personnel Administration -> Payroll Data -> Basic Pay -> Pay Scale Changes -> Pay Scale reclassification -> Specify pay scale reclassification



Pay Scale Structure

A pay scale Structure consists of the following components-

Pay Scale Area

A pay scale area is used to define a geographical area where a collective agreement is valid. The geographical area is determined by the size of pay scale area.

A pay scale area is defined in Customizing Personnel administration and is identified by four character alphanumeric identifier per country. You also define pay scale groups and levels for each pay scale type and employee subgroup grouping in a pay scale area.

The default values are suggested for payscale type and groups and linked to personnel subarea when you create a record in basic pay Infotype (0008).

Pay Scale Type

A Pay scale type is used to define the area of economic activity for which an agreement is valid. The geographical area in which it is valid is applied to the full company.

Pay scale type is also defined in customizing Personnel administration and is identified by four character alphanumeric identifier per country. You define pay scale groups and level for each pay scale area and employee subgroup grouping in each pay scale type.

Pay Scale Group and Level

A Pay scale groups and pay scale levels are used to define the criteria to classify data for job evaluations and indirect valuations. Each pay scale groups is further divided in pay scale levels.

In customizing for Personnel administration, you define pay scale groups and levels per country grouping, pay scale area, type and employee subgroup grouping.

A pay scale group is defined with an alphanumeric identifier with a maximum of eight characters and pay scale levels are described with a two-character alphanumeric identifier.

17. SAP HR – Primary & Secondary Wage types

Wage type is one of the key components in payroll processing. Based on the way they store information, wage type can be divided into two categories.

Primary Wage Type

Primary wage type is defined as wage type for which data is entered in Infotype. Primary wage types are created by copying model wage types provided by SAP. There are different type of primary wage types:

Time wage type

Time wage type is used to store the time related information. This wage type is used to combine payroll and time management. Time wage type is generated at time evaluation and configure through T510S or using custom PCR.

C1Type 1 Table ZL Time wage types									
Date	Start	End	AL	C1	Ab	WT	Wage Type Long Text	I	Number
01.10.2010			00	0000	00	9061		M	8,08
04.10.2010			00	0000	00	9061		M	8,08
05.10.2010			00	0000	00	9061		M	8,08
06.10.2010			00	0000	00	9061		M	8,08
07.10.2010			00	0000	00	9061		M	8,08
08.10.2010			00	0000	00	9061		M	8,08
11.10.2010			00	0000	00	9061		M	8,08

Dialogue Wage Type

These wage type includes basic pay IT0008, recurring payments and deductions IT0014, and additional payments IT0015.

Change Basic Pay

Find by

Person

Collective search help

Search Term

Free search

Hit list

Personnel numb...	Name
01010277	UMBERTO FALLAORO

Pers. No. 1000001

Pers. No 1000001

Pers.area D040 DE - IMAG - Ulm

EE subgrp D9 Pensioner

Start 01.01.2010 to 31.12.9999

Pers.Assgn 0113 DE - IMAG - Ulm Baden-Württe

Name HERMANN KLEY

EE group 2 Pensioner

Status Active

Chng 13.12.2009 6VEA0124

Payment type 0 Basic contract

Reason No reason

Pay scale

Type 40 Metall

Area 91 NW/NB

Group INDIV Level

Object ID

Next increase

Further information

Capacity Util. Level 100,00 %

EESubgroupGrpg PER Periodic (salary)

Work hours/period 152,25 Monthly

Ann.salary EUR

Secondary Wage or Technical Wage Type

Secondary wage types are predefined wage types in SAP system and starts with a slash (/). These wage types are created during payroll run.

These wage types are system generated and cannot be maintained online.

/559 Bank Transfer

Payroll Results			
Personnel No.	1000001	HERMANN KLEY - Germany	
Seq. number	00030	- accounted on 06.10.2010 - current result	
For-Period	09.2010	(01.09.2010 - 30.09.2010)	
In-Period	09.2010	(Fin.: 30.09.2010)	
* /101 Total Gross			91,32
* /102 Current Rem 01			91,32
* /106 Current Gro 01	30,00		91,32
* /10E Total Gross			91,32
* /110 Payments/De			3,00-

Wage type Elements:

Key elements of a wage type include-

- Amount AMT
- Rate RTE
- Number NUM

As per processing type each element can have one, two or all element values.

Example

Basic pay can have Rate and Number. However, a bonus pay can have only amount.

18. SAP HR – Payroll Process

Payroll is processed to calculate the basic salary for the employees and other payments like overtime, shift allowance, and other bonuses. A payroll is processed at certain point of time.

You need to mention the payroll area for which payroll should run. To execute payroll run for multiple payroll areas, you need to run the individually for each payroll area. To lock a payroll for a particular employee, you should use lock Personnel number function.

Payroll control record is used to control the payroll process as mentioned in previous topics and status of payroll control record is automatically changed with each step performed in payroll run.

Payroll Areas to Run Payroll

When a payroll is run for a payroll area, SAP system increases the period number in the payroll control record by one. It is not possible to change the master and time data for the personnel numbers belonging to the current payroll area if it affects the payroll past or present.

Payroll Run

This is used to determine the current payroll period from the payroll control record and performs payroll using the values you entered in the payroll program.

- You have to check if the payroll process has completed successfully or any errors have occurred. When the payroll runs with errors, system displays error messages. You can get a descriptive payroll log.
- You can put the payroll status to check the payroll results during this phase. This way you make sure that no changes are made to the payroll-relevant data which could affect the payroll past or present.
- You can put a check on the results of payroll run after completion.
- You can also get a report that tells you the stored payroll result. Using this report, each employee can see the contents of all internal tables that has payroll results and you can also check all partial runs.

Correcting master or time data for payroll run errors

In the Payroll Status Infotype (0003), the system also flags the payroll correction field for all the rejected personnel numbers. In case you correct the master or time data for a personnel number, this field is also flagged.

All personnel numbers for which the master data is corrected are grouped again in a list-Matchcode W. The next step is the payroll correction run, which involves payroll run for this matchcode W (only for corrected personnel numbers).

Release payroll

When you have many employees in the correction run, you can run the correction payroll run as a background job. However, if there are only few employees, it can also be run online like a regular payroll run.

Posting to Accounting

In few cases, errors can popup, which means that you should change the master and time data again. If it occurs then run the payroll correction and this means posting to accounting again. In the end, you exit the payroll.

19. SAP HR – Gross Pay

In SAP HR system, a gross salary is known as an agreed compensation that an organization agrees to pay to an employee on a monthly basis for the work that he does for that company in that specific period.

You can define net salary as gross salary minus all the deductions that are made because of statutory compliances of a country and organization such as EPF, ESI, Income Tax, etc. It includes other dues like home loans, car loans and advance salary taken, which you owe to the company and any legal dues that an employee has to pay.

CTC or Cost to Company is defined as gross salary + Benefits, Perks and is called as total Cost to company.

Example

Consider the following example:

Basic Salary	INR 12000
House Rent Allowance	INR 5000
Conveyance Allowance	INR 1000
Magazine Allowance	INR 500
Education Allowance	INR 500

GROSS SALARY INR 19000

Deductions:

Provident Fund	INR 1440
Income Tax	INR 310
Loan Deduction	INR 1080
Total Deductions	INR 2830

NET SALARY INR 16170

Leave Travel Allowance	INR 10000 per annum
Medical Reimbursement	INR 10000 per annum
Premium for mediclaim	INR 1500 per annum
PF contribution	INR 16332 per annum

CTC (Cost to Company) INR 2, 65,832 annually (i.e. CTC = Monthly Gross Salary X 12 + Annual benefits)

Bonuses and Recurring Payments

For recurring payment/deductions, an Infotype 0014 is used. Recurring payments and deductions are the payment types that are not deducted or paid in every payroll.

To execute the recurring payment, below information is required:

- **Wage type:** It requires wage type to process the payment.
- **Number/Unit:** This depends on the wage type and the system checks the combination entered.
- **Currency:** The currency varies as per the company code. The system automatically suggests the currency to be used as per the company code.
- **First payment date and interval/unit:** This determines the recurring payment to be made and it automatically identifies when the payments are to be made. When there is no entry for this field, by default, the system makes payment as per wage type in each payroll period.

Payroll Cycle & Time Management Data

To use all the features in SAP HR system, you need to store master data for all employees in SAP Human Resource system.

001	Organizational Data
002	Name
007	Planned Working Time
024	Qualification
105	Communication Note that it is important to map the user ID to the employee in infotype 105.
301	Time Sheet Default Values
2001	Absences
2002	Attendances

During payroll run in the Payroll Status Infotype (0003), the system also flags the payroll correction field for all the rejected personnel numbers. In case you correct the master or the time data for a personnel number, this field is also flagged.

All personnel numbers for which the master data is corrected are grouped again in a list-Matchcode W. The next step is the payroll correction run, which involves payroll run for this matchcode W (only for corrected personnel numbers).

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Payroll Integration

Payroll is normally integrated to these systems- FI/CO, Benefits, Time Management and Expenses.

Integration with FICO and Infotype

Following are the key activities in SAP FI/CO that can be integrated with payroll.

- Defining organizational accounting structure
- Creation of General Ledger G/L accounts
- Defining automatic account assignments
- Defining primary cost elements.
- Infotype 0001 master code assignment and organizational assignment.
- Infotype 0027 Cost centers and cost Distribution.
- Infotype 2002 for cost distribution and activity allocation and for time management

Integration with Time Management

- Organization Management: Organization Administration Organizational Reporting
- Attendance
- Conditions
- Time Managers
- Administration
- Working Time
- Workplace

Integration with benefits and payroll

- Administration
- Payroll Processing
- Payroll
- Reporting
- Benefit plans
- Insurance plans
- Health plans
- Miscellaneous plans

20. SAP HR – Payroll Cycle

Payroll is processed to calculate the basic salary for the employees and other payments like overtime, shift allowance, and other bonuses. A payroll is processed at certain point of time.

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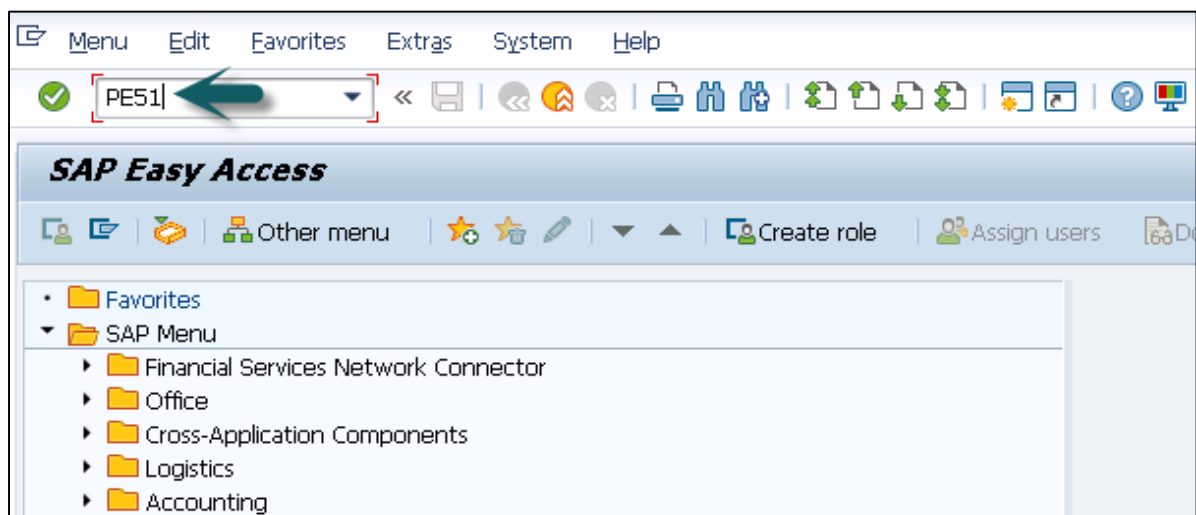
Remuneration Statement

When the payroll is run, a pay slip is generated and this is the first report that is used after payroll processing. Pay slip is also called Remuneration statement.

Processing of payroll and generating statements vary each month as per the different input types and payment type in each month.

Following are the steps to configure for remuneration statement-

1. Use the T-Code: PE51



2. A new window **HR form Editor: Initial Screen** opens. Enter the code for Country grouping, Form name and click Create.

HR Form Editor: Initial Screen

Country Grouping: 01 Germany

Form name: ZN1

Create

Subobjects:

- ☐ Attributes
- ☒ Background
- ☐ Single fields
- ☐ Window
- ☐ Line layout
- ☐ Cumulation IDs
- ☐ Text modules
- ☐ Rules
- ☐ Documentation

Display Change

3. Select the Form class.

HR Form Editor: Initial Screen

Determine Form Class

Form Class: ☒ Form Class (1) 10 Entries found

Restrictions

Form class	Name
BEXX	Statements
BLSB	Construction ind: hourly report
CEDT	Remuneration Statement
CKTO	Payroll account
CLGA	Wage type statement
CLJN	Payroll journal
CLJO	Payroll journal - old version
CST1	Statistics with HR form editor
CSTA	Employment Tax Notification
CSTB	Employment Tax Statement

Subobjects:

- ☐ Attributes
- ☒ Background
- ☐ Single fields
- ☐ Window
- ☐ Line layout
- ☐ Cumulation IDs
- ☐ Text modules
- ☐ Rules
- ☐ Documentation

Display

4. This will create a new form or you can also copy an existing form.

HR Form Editor: Change Attributes - Form ZN11

Country Grouping: 01 Germany

Form Class: CEDT Remuneration Statement

Attributes

Form name: ZN11

Person responsible: B01

☐ Changes only by person responsible

Maximum size		Current size	
Lines	65	Lines	0
Columns	132	Columns	0

Administrative information

Created on: 30.09.2015

Last changed by: on at 00:00:00

You can find administrative information like when and who has created the form.

The required fields are:

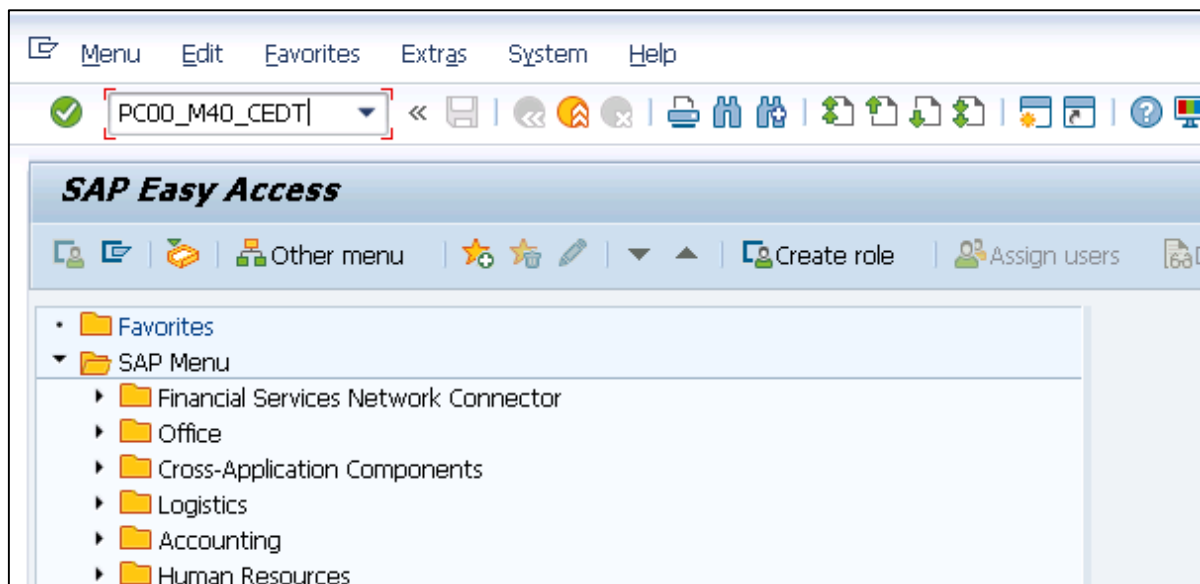
- **Attribute Area:** This is used to determine the size of the form, name and type.
- **Person responsible:** This shows the person responsible and who can make the changes. There is a Check box, **Changes only by person responsible**. Using this, you can restrict the changes in the form by unauthorized persons, allowing modification only by the creator.

You can also change the following properties of the form-

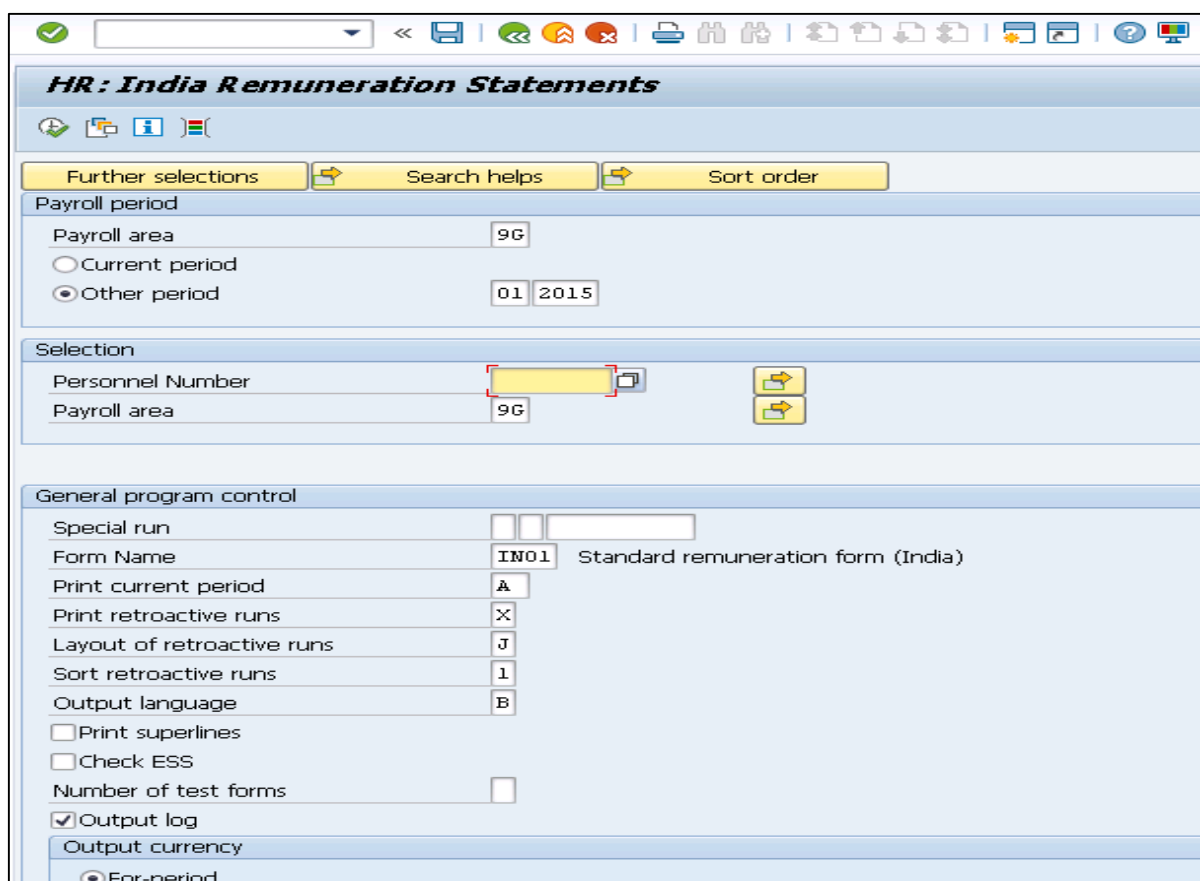
- Background
- Single fields
- Window
- Line Layout
- Cumulation IDs
- Text Modules
- Rules
- Documentation

To create a variant in Payroll Driver

1. Use T-Code: PC00_M40_CEDT



2. A new window **HR: India Remuneration Statements** opens.



3. Click the save icon at the top and it will open the Variant Attributes screen.

Variant Attributes

Copy Screen Assignment

Variant Name:
 Description:

☐ Only for Background Processing
☐ Protect Variant
☐ Only Display in Catalog
☐ System Variant (Automatic Transport)

Screen Assignment

Created	Selection Scr
<input checked="" type="checkbox"/>	1000

Technical name

Objects for selection screen

Selection Screen	Field name	Type	Protect field	Hide field	Hide field 'BIS'	Save field without v
1.000	start	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.000	end	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.000	End of in-period	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.000	End of for-period	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.000	Payday	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.000	Payroll Area	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.000	r0	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.000	r1	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.000	PYABRPO	P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. To use the Payroll driver, use the Variant: T - Code: PC00_M40_CALC_SIMU

Payroll Driver, India

Selections from Search helps

Payroll period

Payroll area

☒ Current period
☐ Other period

Selection

Personnel Number

Payroll area

General program control

Payroll reason

Off-cycle payroll

Schema

Forced retro.accounting as of

☒ Test run (no update)

Log

☐ Display log

☐ Also display time data processing log

Display variant for log

Remuneration statement parameters

You can use this pay slip now. Note that the pay slip type is form class CEDT.

21. SAP HR – Universal Work List

Universal Work List (UWL) is a SAP Enterprise Portal element, the users can personalize as their central point of access to their tasks. Universal worklist UWL allows the use of current work items that are generated by the system when running SAP HR process in the system.

Uses of UWL

- Universe worklist is used for all the portal roles that are used in all the processes in SAP HCM Processes and Forms.
- You cannot set up a Universal worklist UWL for the roles that trigger the process start and are not involved in other process steps.
- Universal worklist UWL is normally integrated with HR Administrator and Manager portal roles and is set up to enable the system to display work items from HCM Processes and Forms.
- To set up the additional roles using SAP HR Processes and Forms, Universal Worklist must be configured accordingly integrated with portal roles in the system.

Universal Work List – Setup

UWL is used to group the different workflow tasks and alerts that are relevant for HR Administrator.

To set up UWL- go to portal -> Select System Administration -> System Configuration -> Universal Worklist and workflow -> Universal Worklist -> UWL System Configuration

You can set up a new connector if you do not have a connector in the system connected to system alias otherwise you can also use an existing one.

Advantages-

Following are the key advantages of using UWL-

- You can access guided Procedure work items in common UWL inbox.
- You can launch new items, open items in the same window or in new window.
- To manage the work items you can use inbox customization flexibility.
- You can use the pull mechanism that allows you to use auto or manual refresh options for work items.

Security in SAP HCM

Security in SAP HR system is one of the most important feature as it involves securing critical information and personal data of employees. Security also covers securing internal information in an organization like department details, vacancy, job details, salary information, etc.

There are various critical data in HR system that needs to be secured. For example, Employee Personal data, Pay slips, Time sheets, Expense Details, Salary account Details, HR system configuration details, HR policies, etc.

Transaction Codes used to maintain security in SAP HR system:

- OOSP – Defined PD profile
- OOAW – Evaluation path definition
- PP01 – To maintain PD data
- PPOC – Create Organizational Unit
- PPOS – Display Organization

Authorization Objects

Authorization objects are used to perform complex check of authorizations when a user performs some actions. An authorization object groups multiple authorization fields. Authorization objects are used to restrict the access on personal data.

There are various authorization levels-

- Authorization Field
- Long Text

- PERSA
Personnel Area

- PERSG
Employee Group

- PERSK
Employee Subgroup

- INFTY
Infotype

- SUBTY
Subtype

- VDSK1
Organizational Key

- AUTHC
Authorization Level

- **R (Read):** This is used for read access.
- **M (Matchcode):** This is used for read access to input helps.
- **Enqueue and Dequeue E and D:** is used for write access using the asymmetrical double verification principle.

- E is used to allow the users to create and change locked data records.
- D is used to allow the users to change the lock indicators.
- **W (Write):** This is used for write access.
- S is used for write access using the Symmetric Double Verification Principle.

Data Migration in SAP HR

SAP data migration includes the facts and figures to be migrated from non-SAP system to a SAP system.

Data migration involves the following steps:

- **Data Preparation and Analysis:** This includes the fact and figures that are available in HR system.
- **Data Mapping:** It includes mapping of data from data sources from non-SAP system to a SAP system.
- **Data Extraction and Conversion:** This includes data extraction from legacy system and converting the data to a format, which is acceptable by SAP system.
- **Data Upload:** It involves incorrect configuration, incorrect mapping, incorrect data and finding data mistakes. Reloading of facts and figures in case there is any error.
- **Testing and data validation:** Once the data is uploaded, you can validate the data like SAP Standard Reports and SAP Database Tables.